

FIG.1

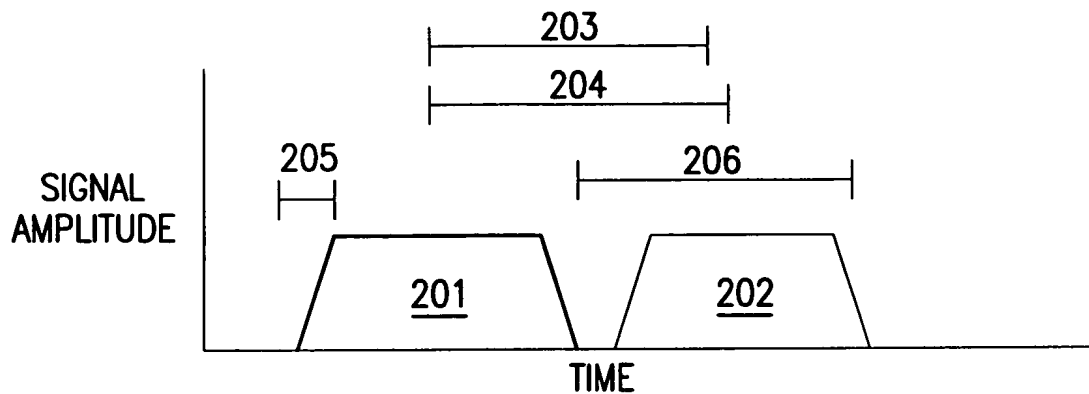


FIG. 2A

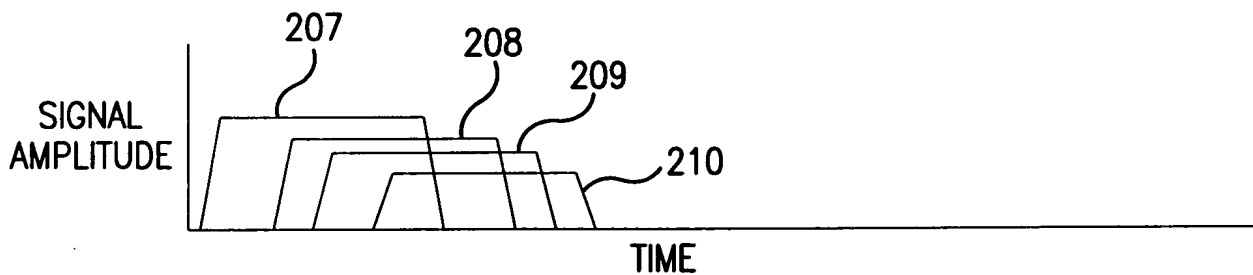


FIG. 2B

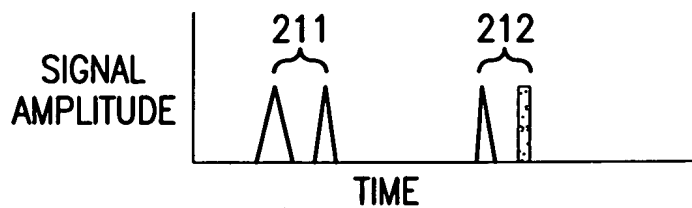
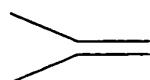


FIG. 2C



i



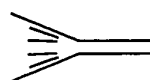
ii



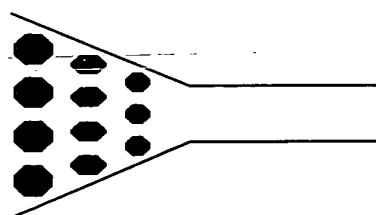
iii



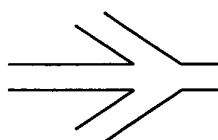
iv



v



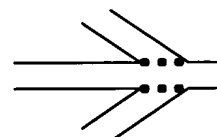
vi



vii



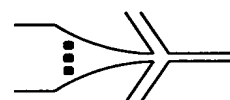
viii



ix



x



xi

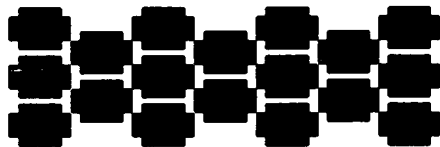


xii

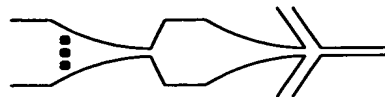


xiii

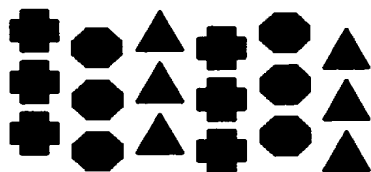
FIG.3A



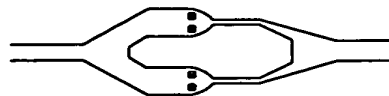
xiv



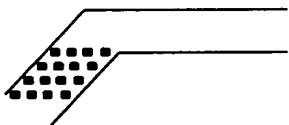
xvix



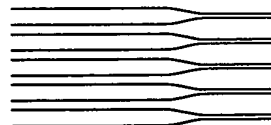
xv



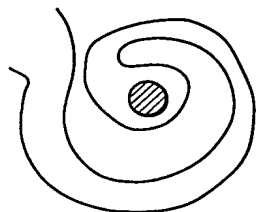
xx



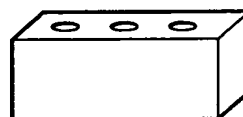
xvi



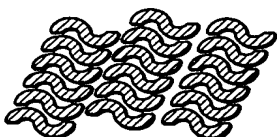
xxi



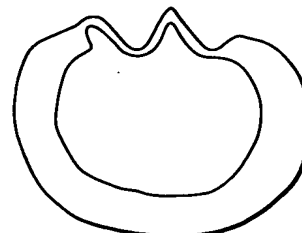
xvii



xxii



xviii



xxiii

FIG.3B

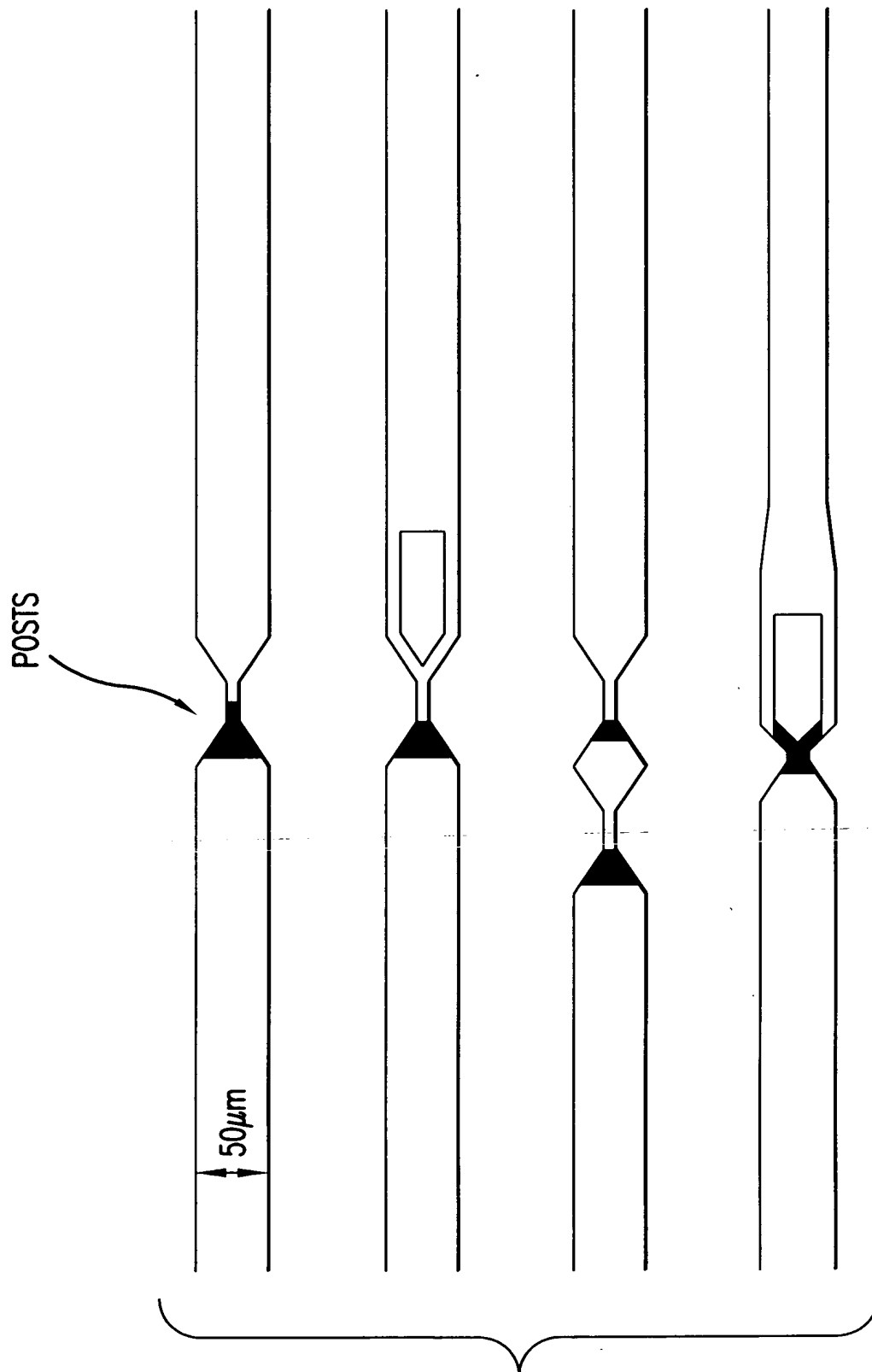


FIG.4A

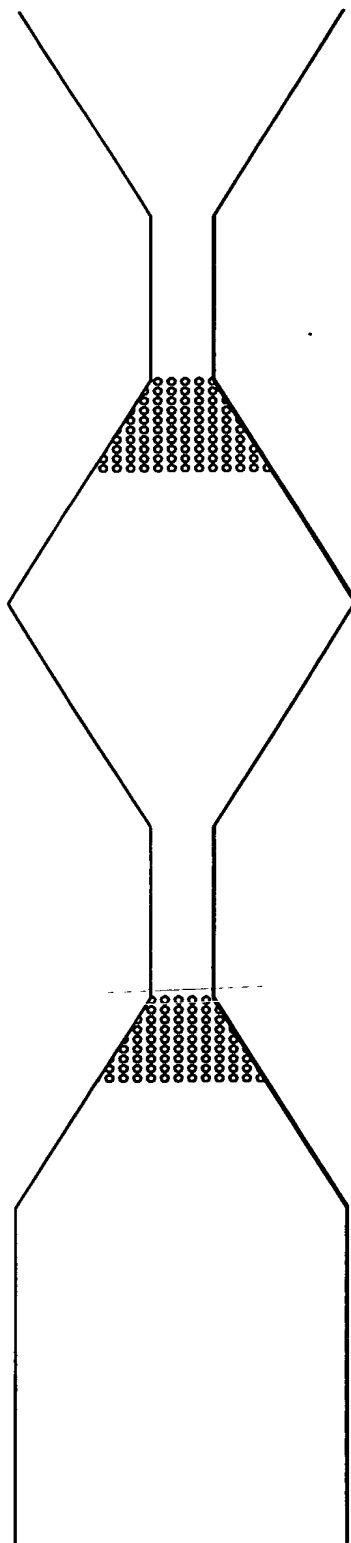


FIG. 4B

FIG. 4B

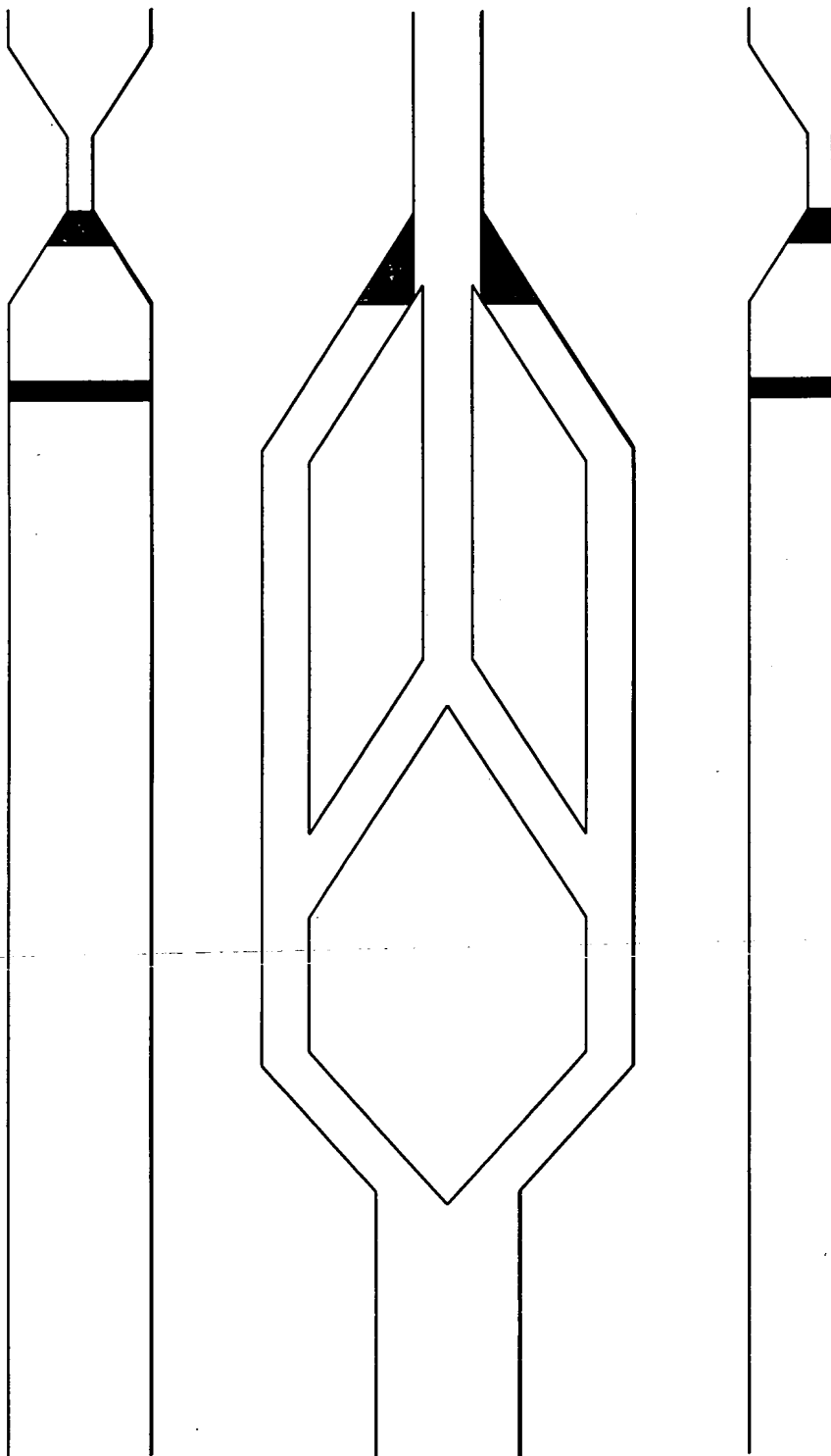


FIG.4C

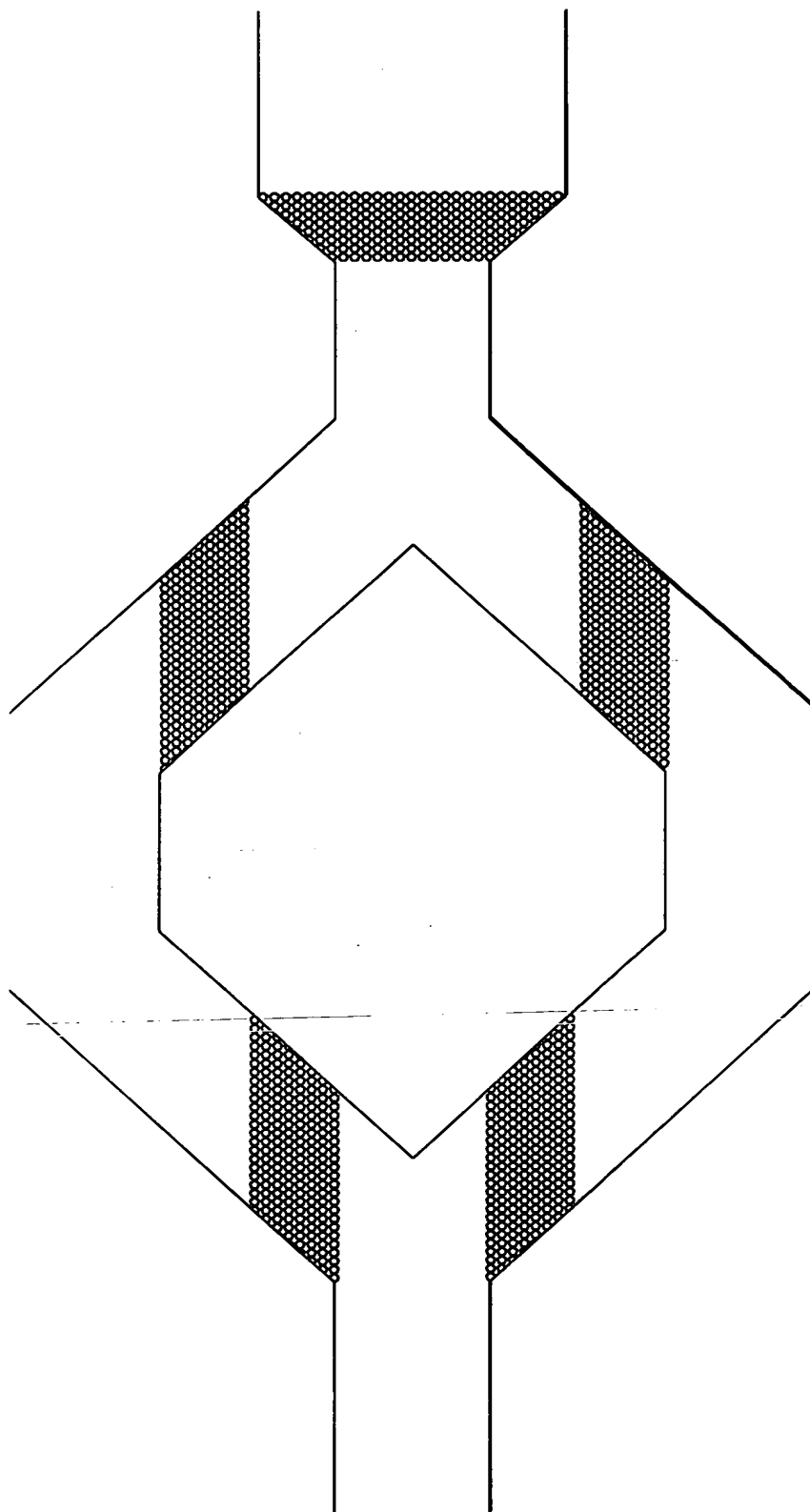


FIG.4D

FIG. 4D

FIG. 4E

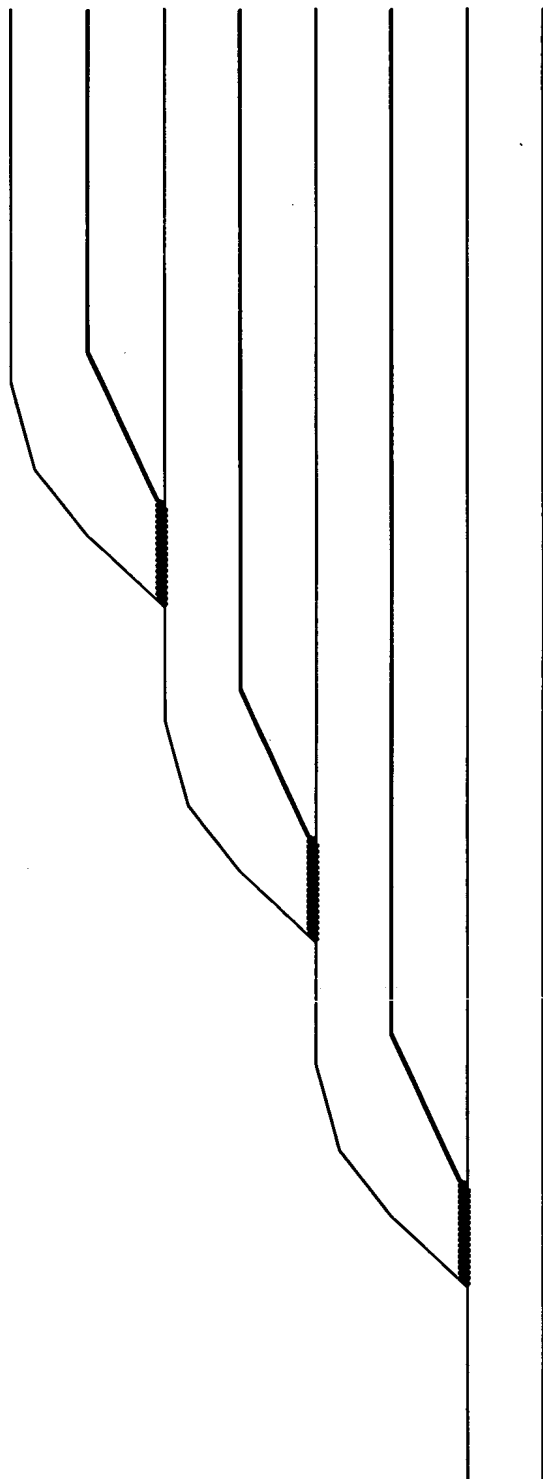


FIG. 4E

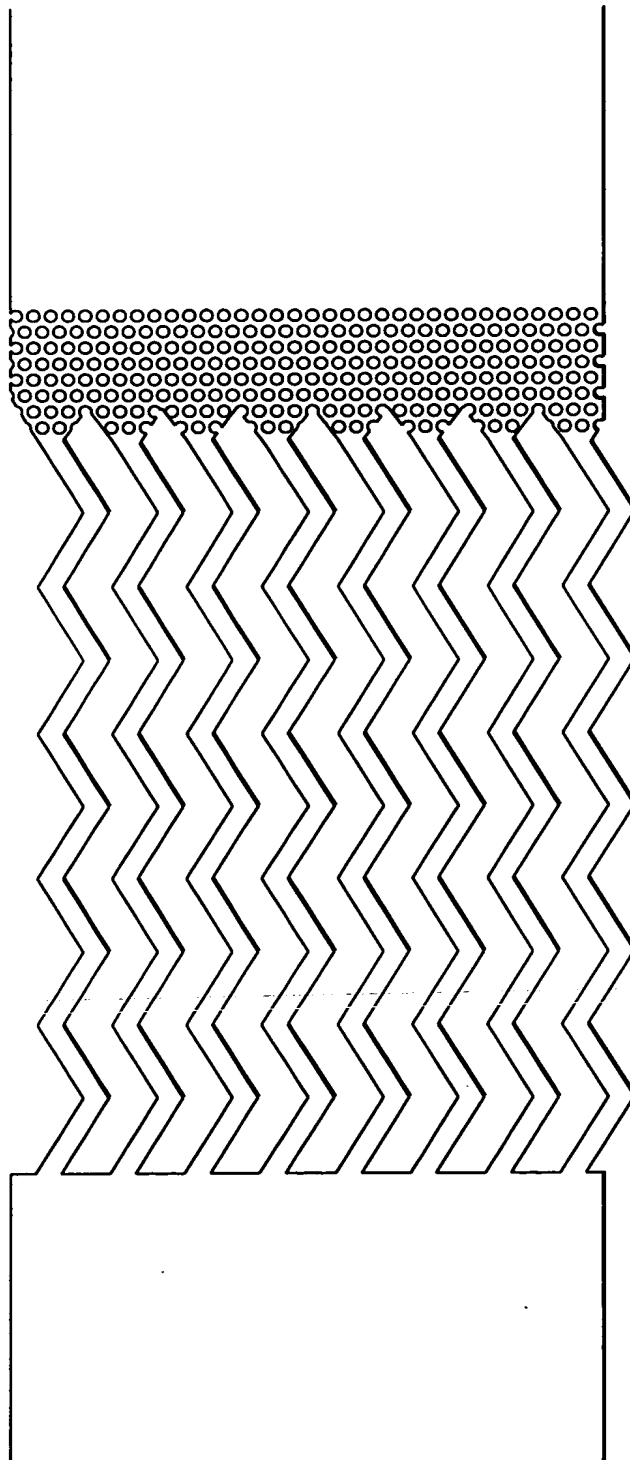


FIG. 4F

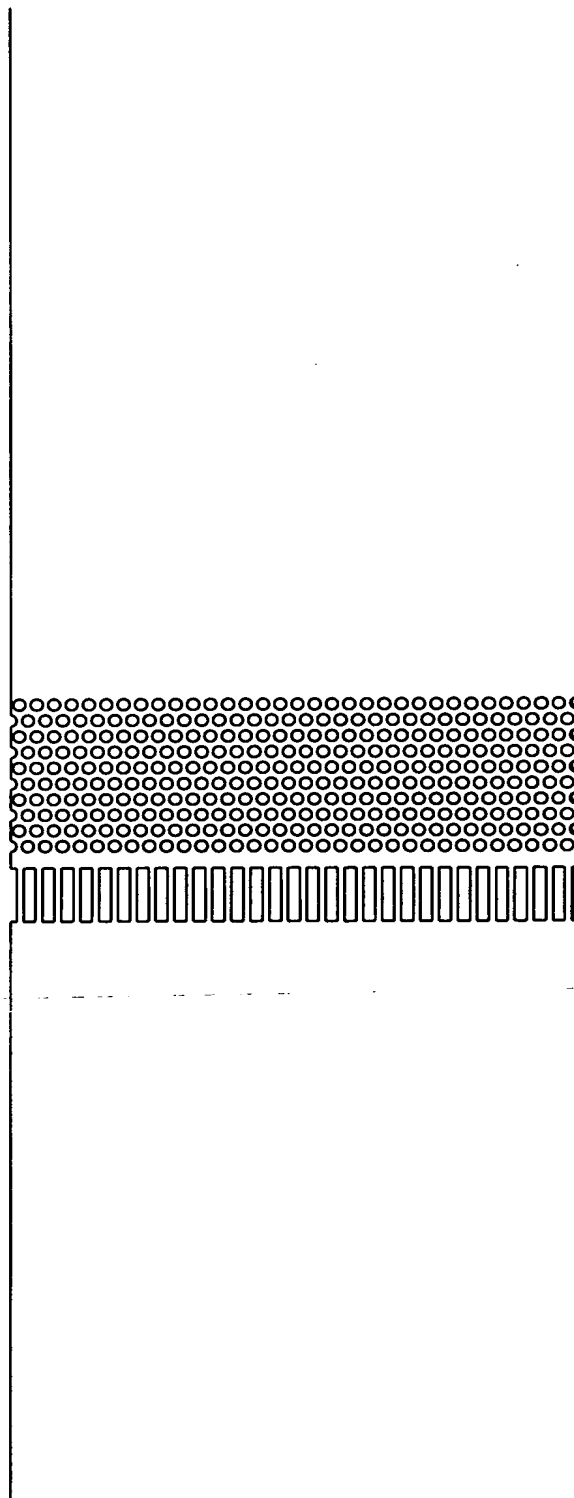


FIG. 4G

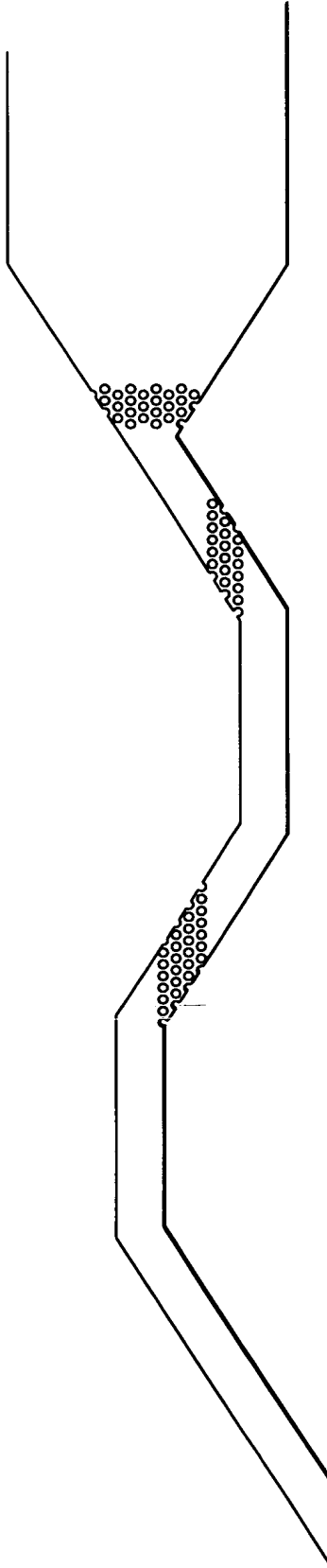
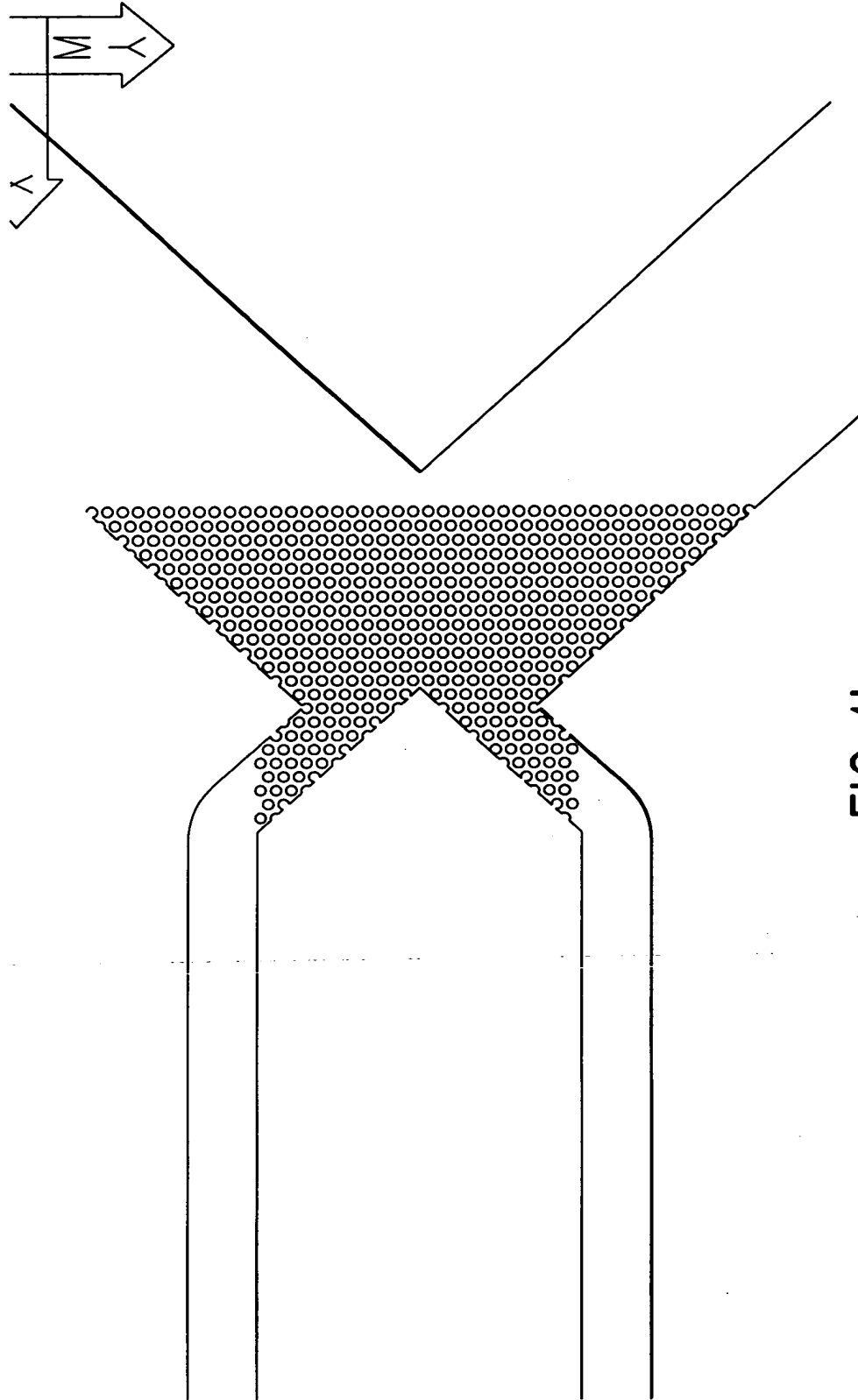


FIG.4H



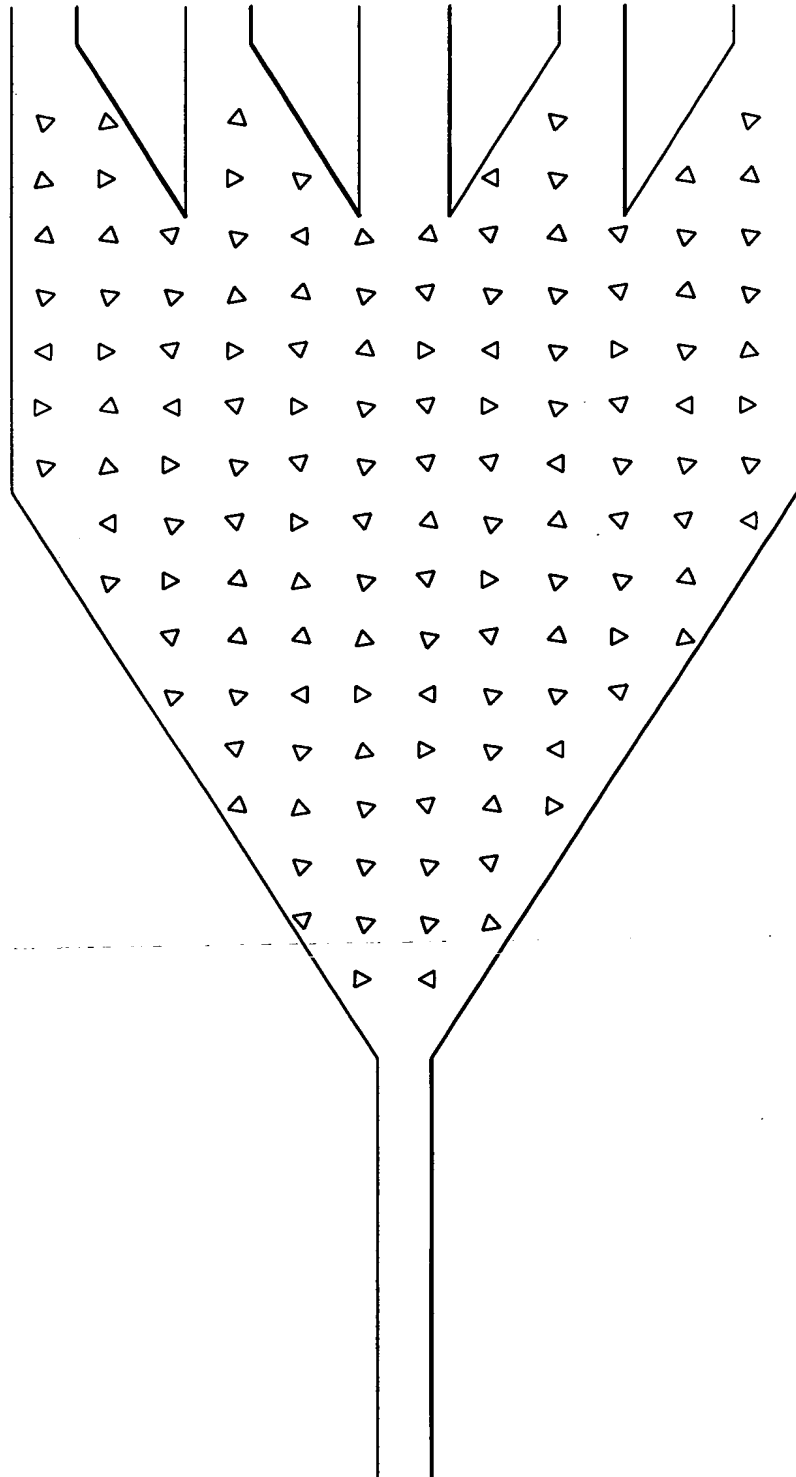


FIG.4J

FIG. 4J is a schematic diagram of a funnel-shaped structure.

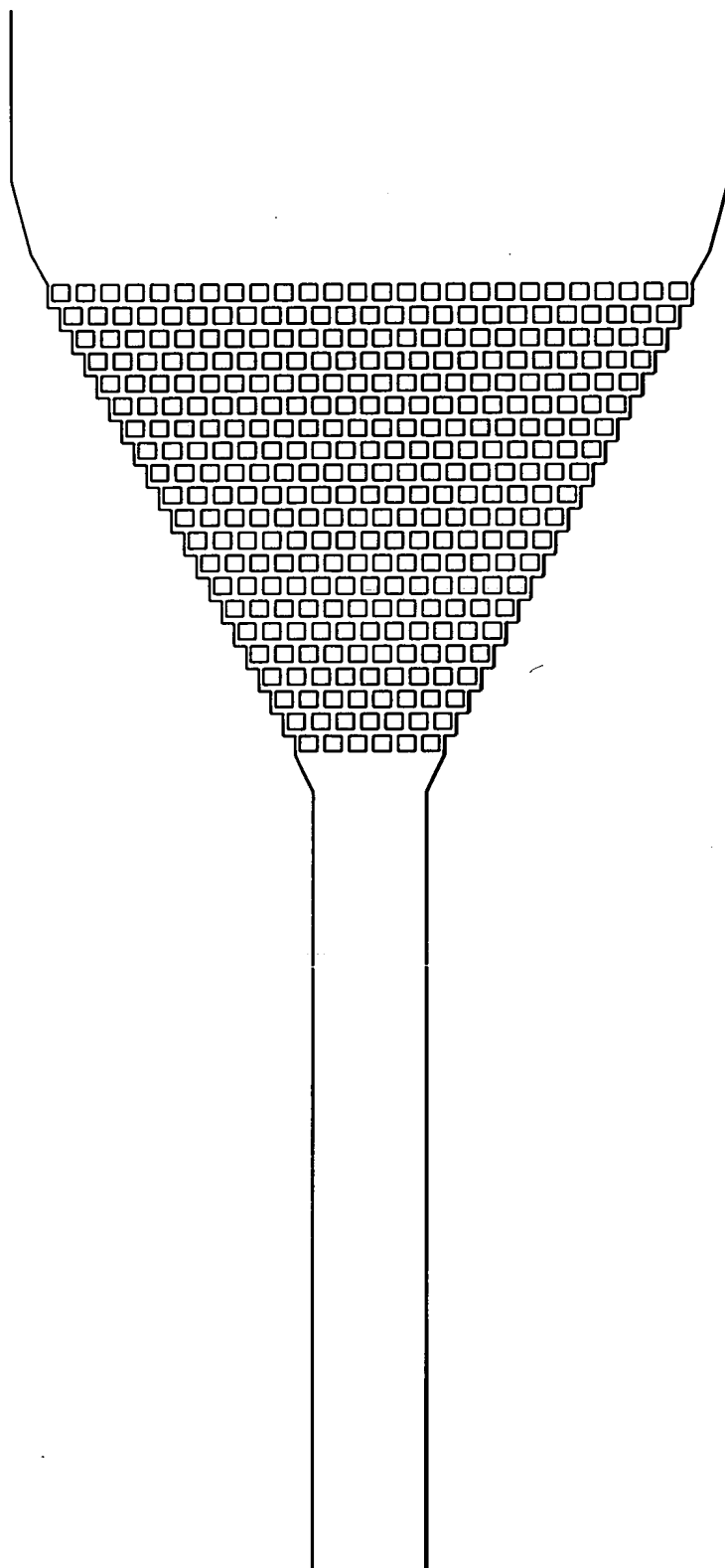


FIG.4K

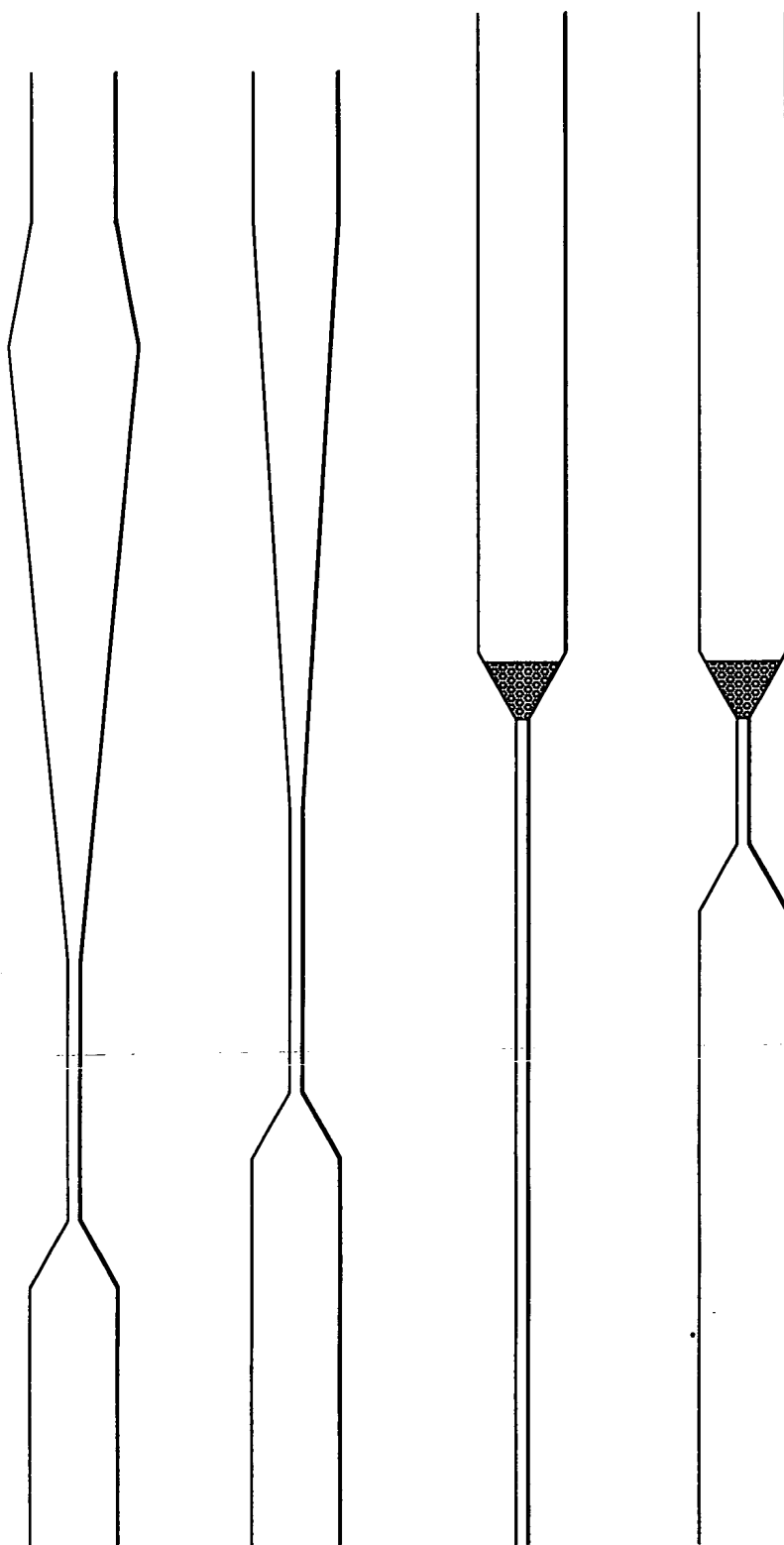


FIG.4L

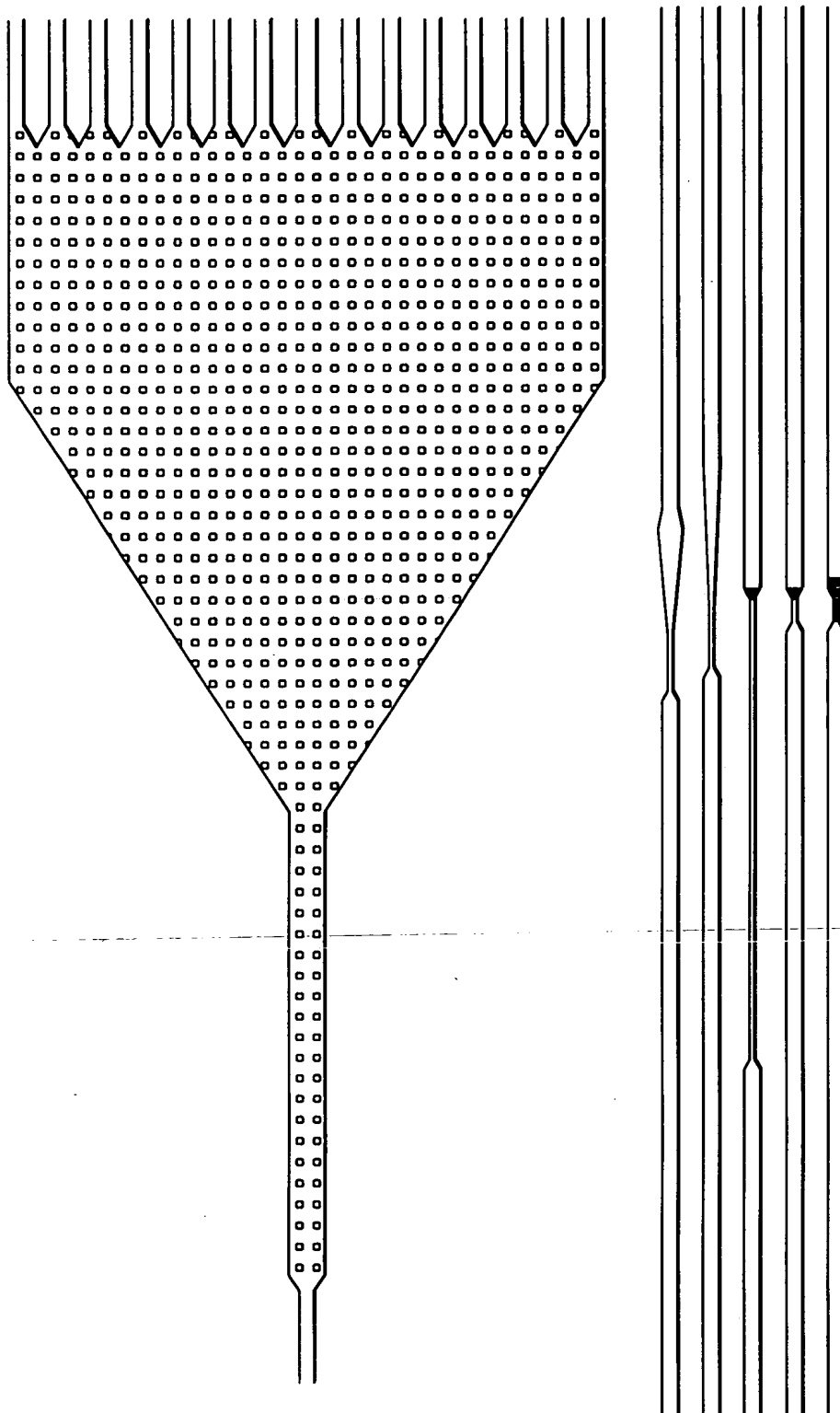


FIG. 4M

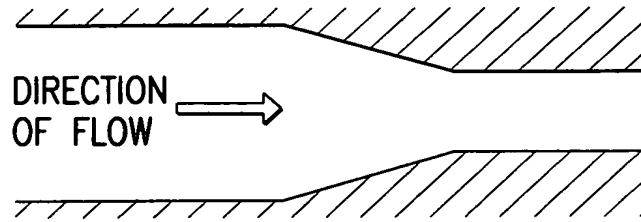


FIG.5

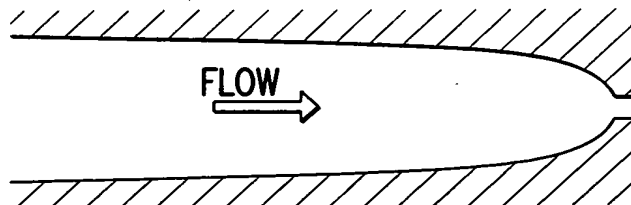


FIG.6

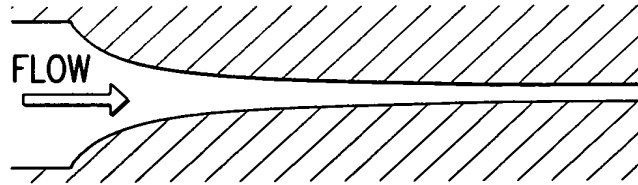


FIG.7

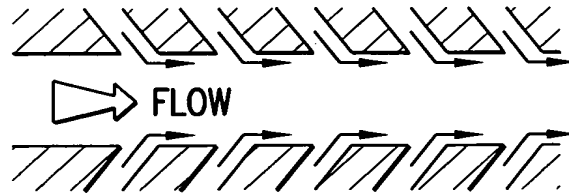


FIG.8

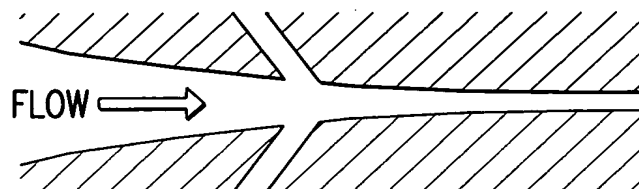


FIG. 9

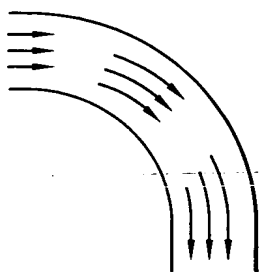


FIG. 10A

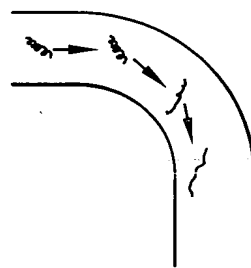


FIG. 10B

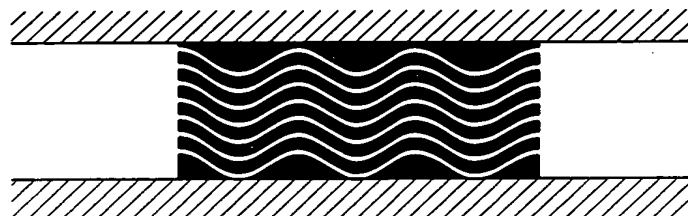


FIG.11

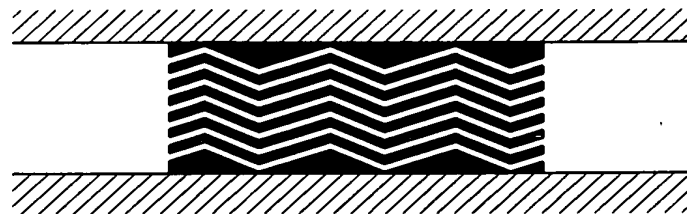


FIG.12

10066-021-999

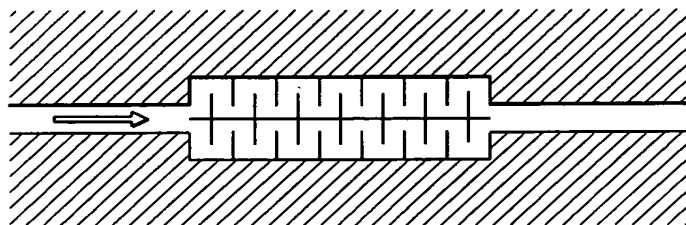


FIG.13

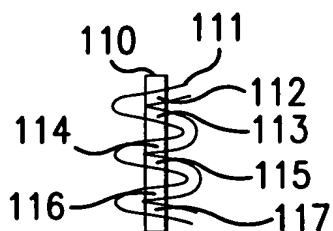


FIG.14

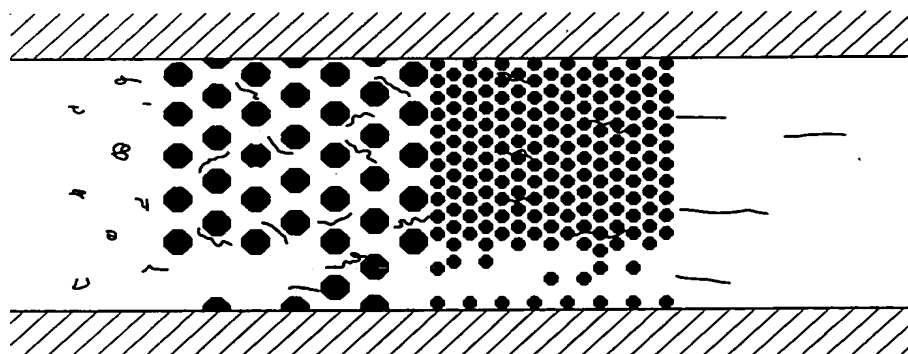


FIG.15

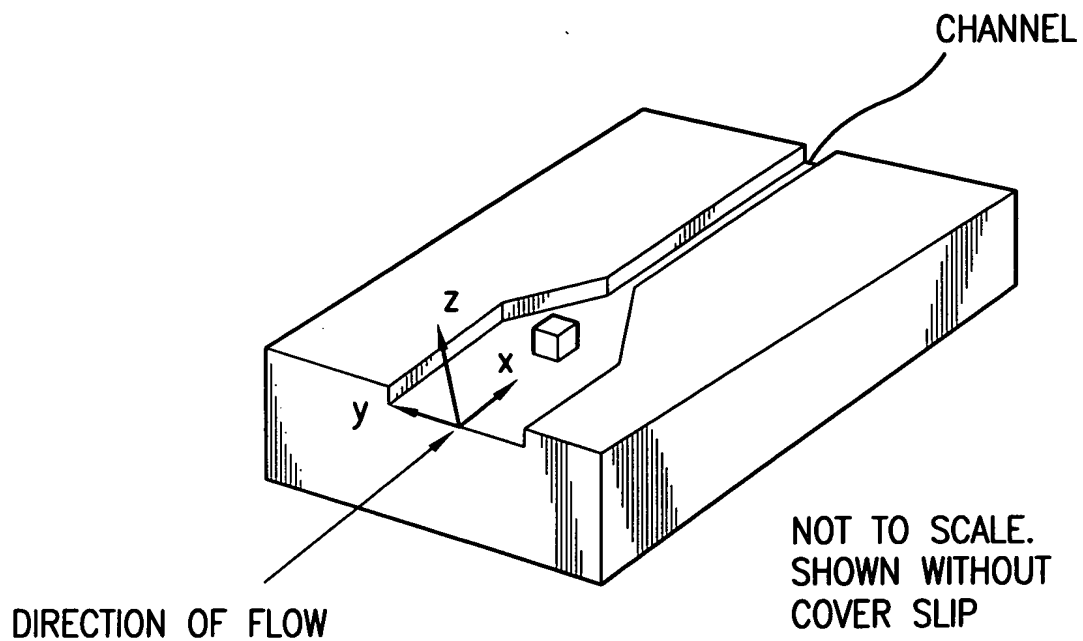


FIG.16

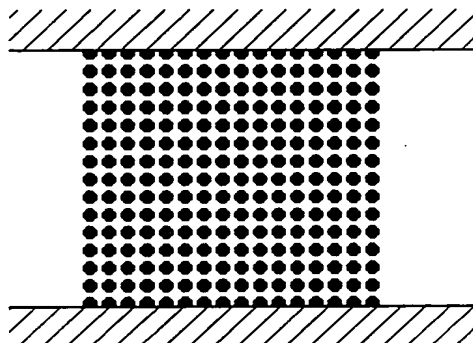


FIG. 17A

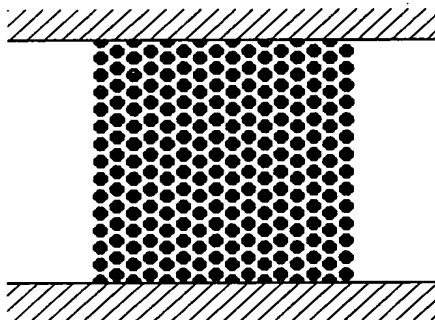


FIG. 17B

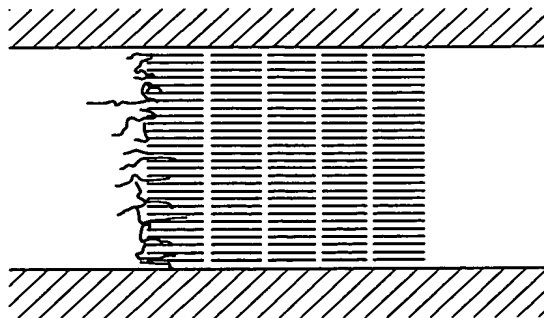


FIG. 18

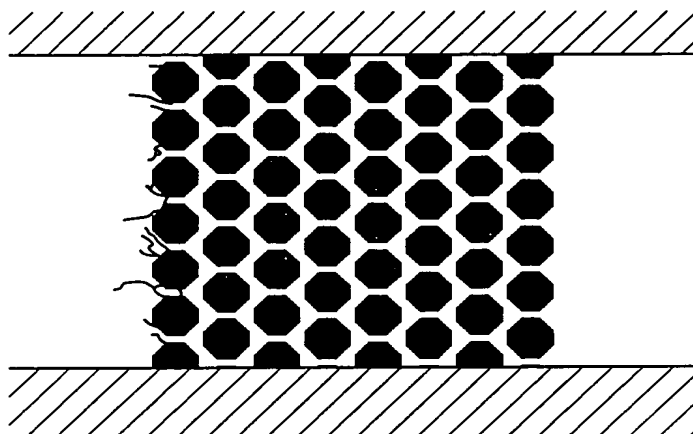


FIG. 19

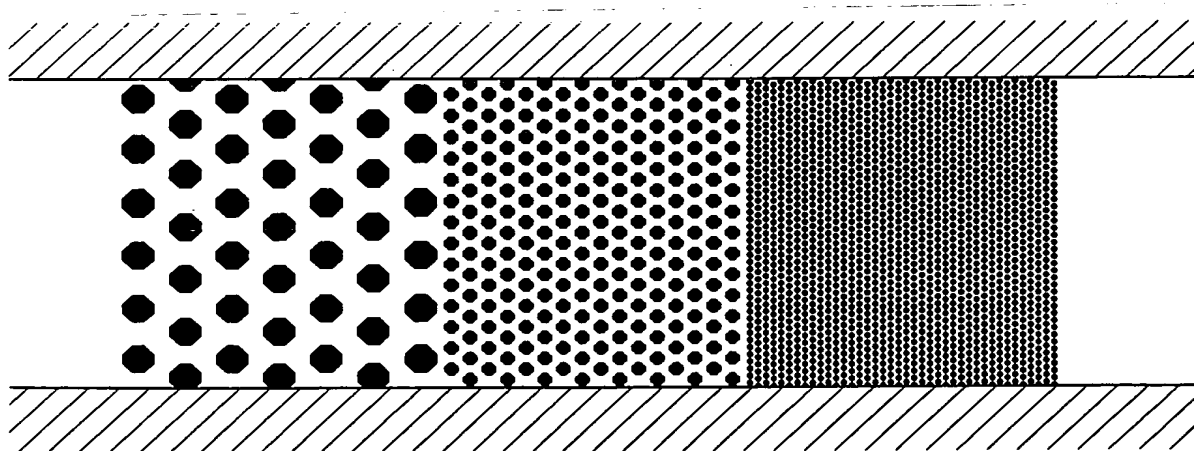


FIG. 20

- REGION OF CONSTANT X-DIRECTION SHEAR TO MAINTAIN THE POLYMER IN EXTENDED CONFORMATION AFTER RELEASE FROM THE POSTS

- DISTANCE FROM END OF POST FIELD TO REGION OF EXCITATION 1-3 mm

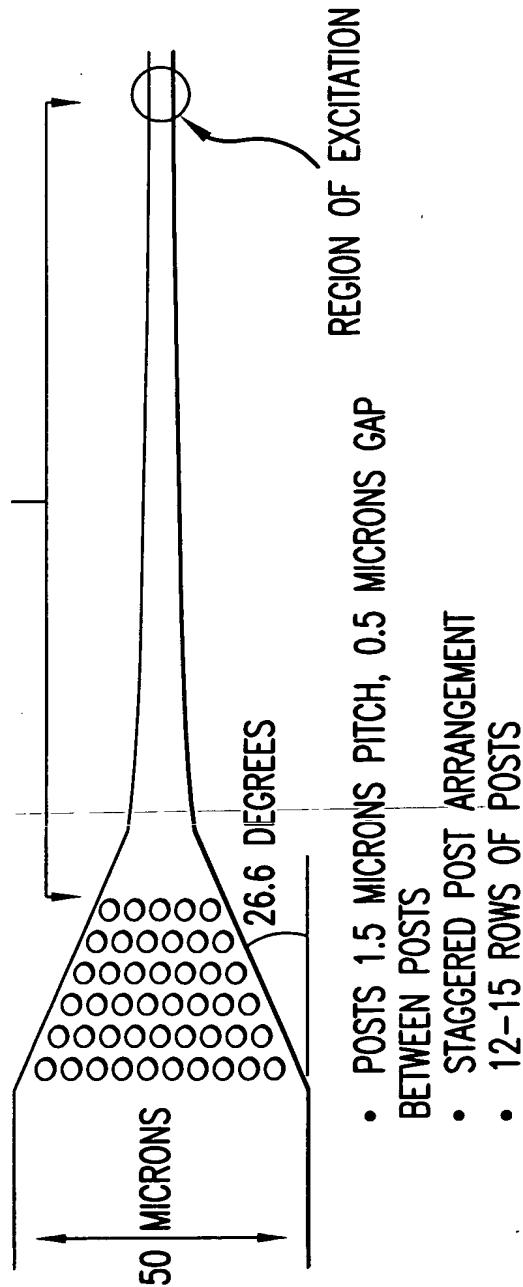
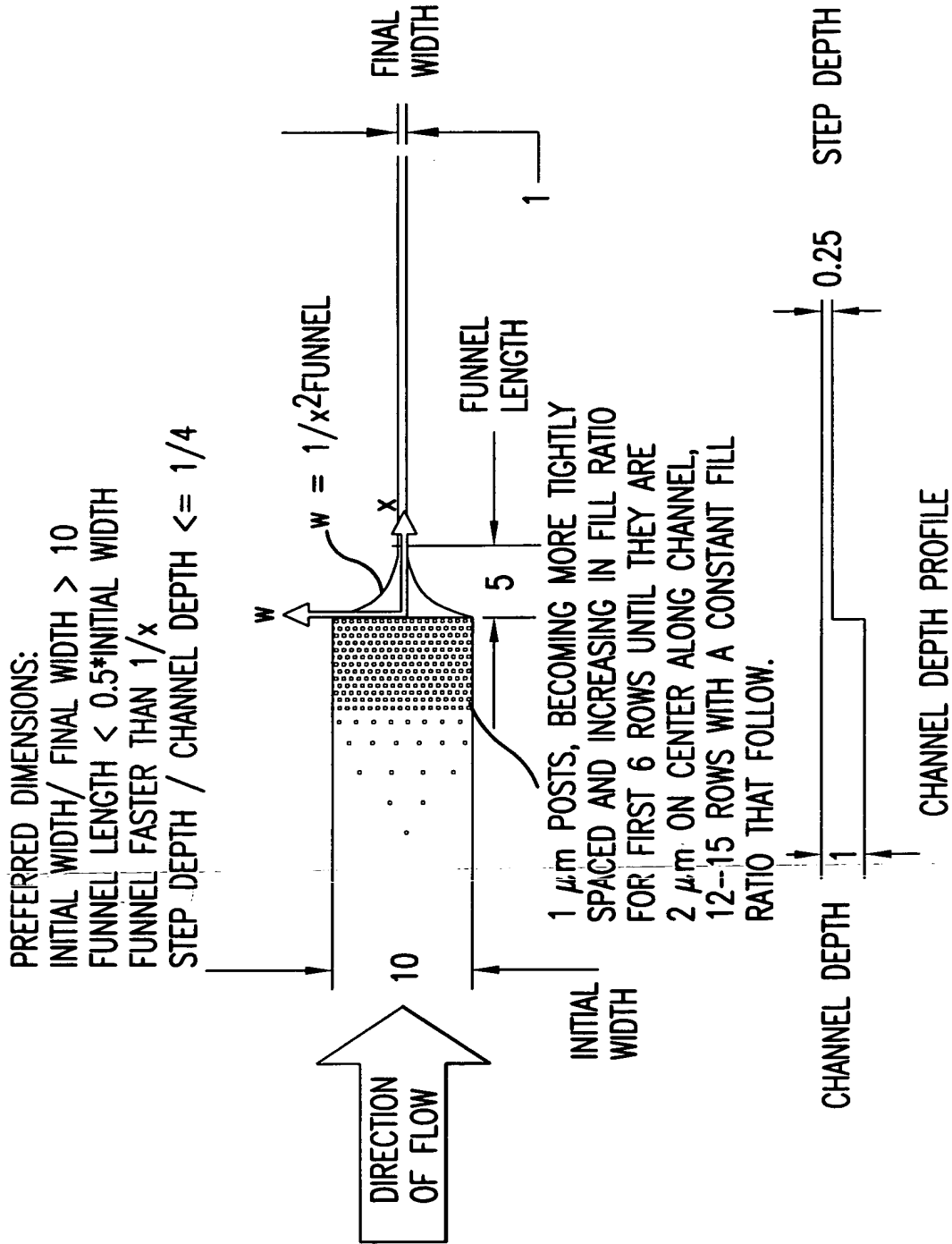


FIG.21



NOT TO SCALE, ALL DIMENSIONS IN μm

FIG.22

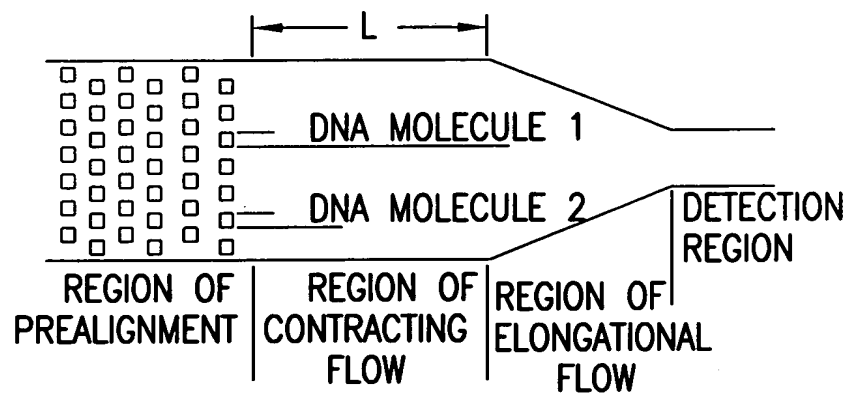


FIG.23

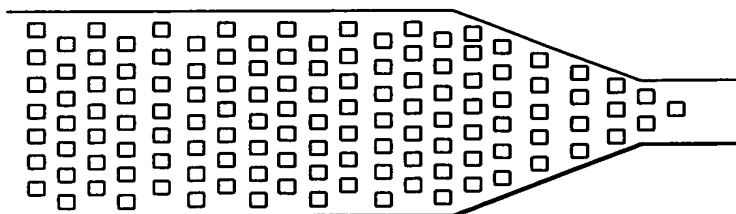


FIG.24

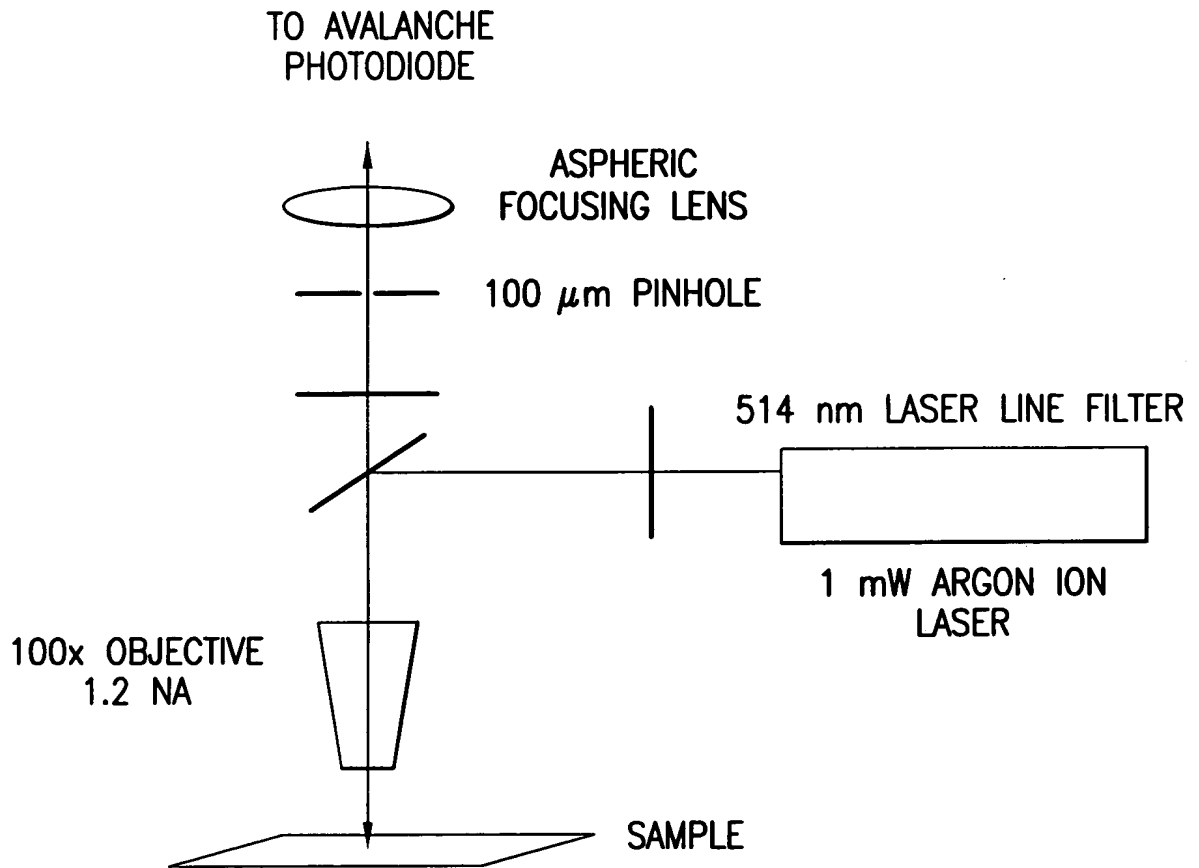


FIG.25

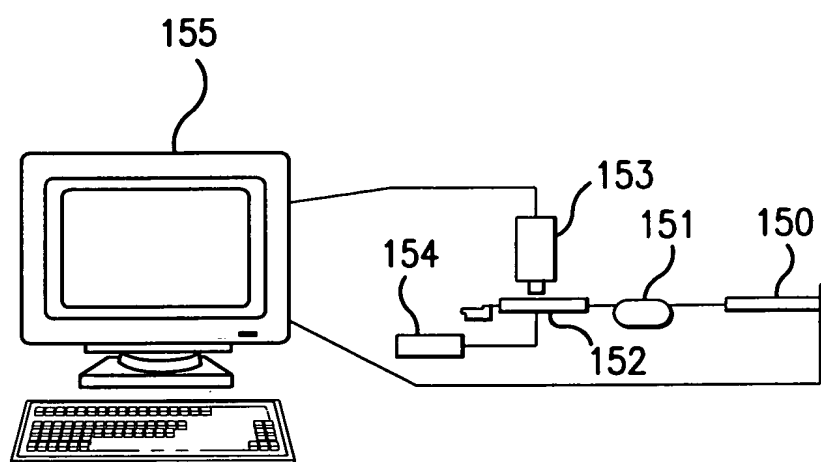


FIG.26

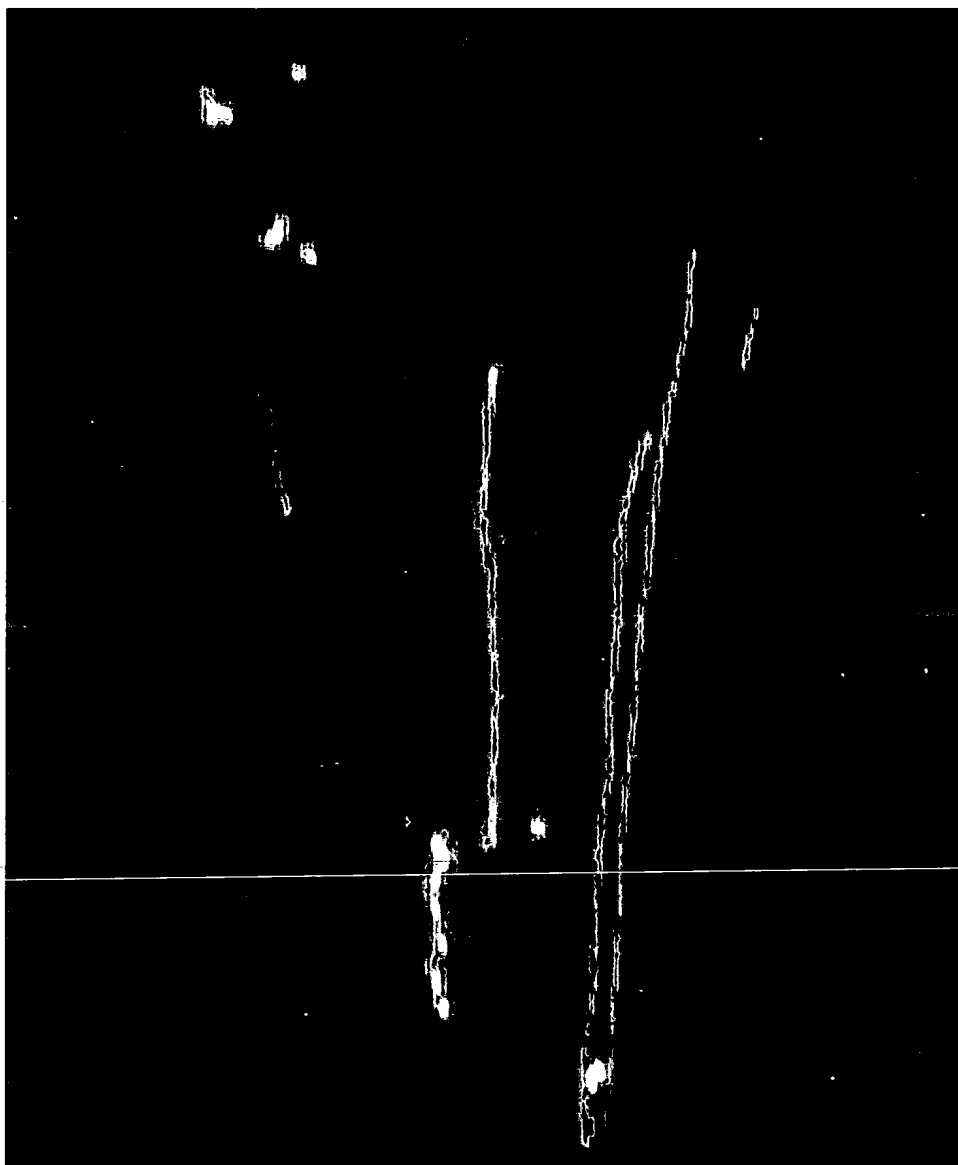


FIG.27



FIG.28A



FIG.28B



FIG.28C

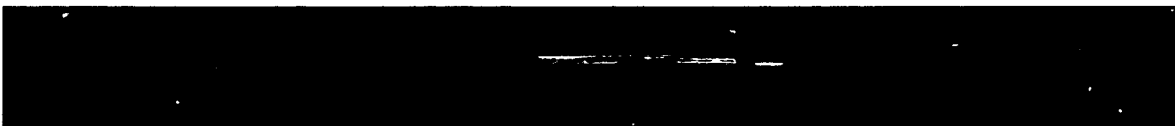


FIG.28D



FIG.28E



FIG.28F



FIG.28G

FIG. 28A

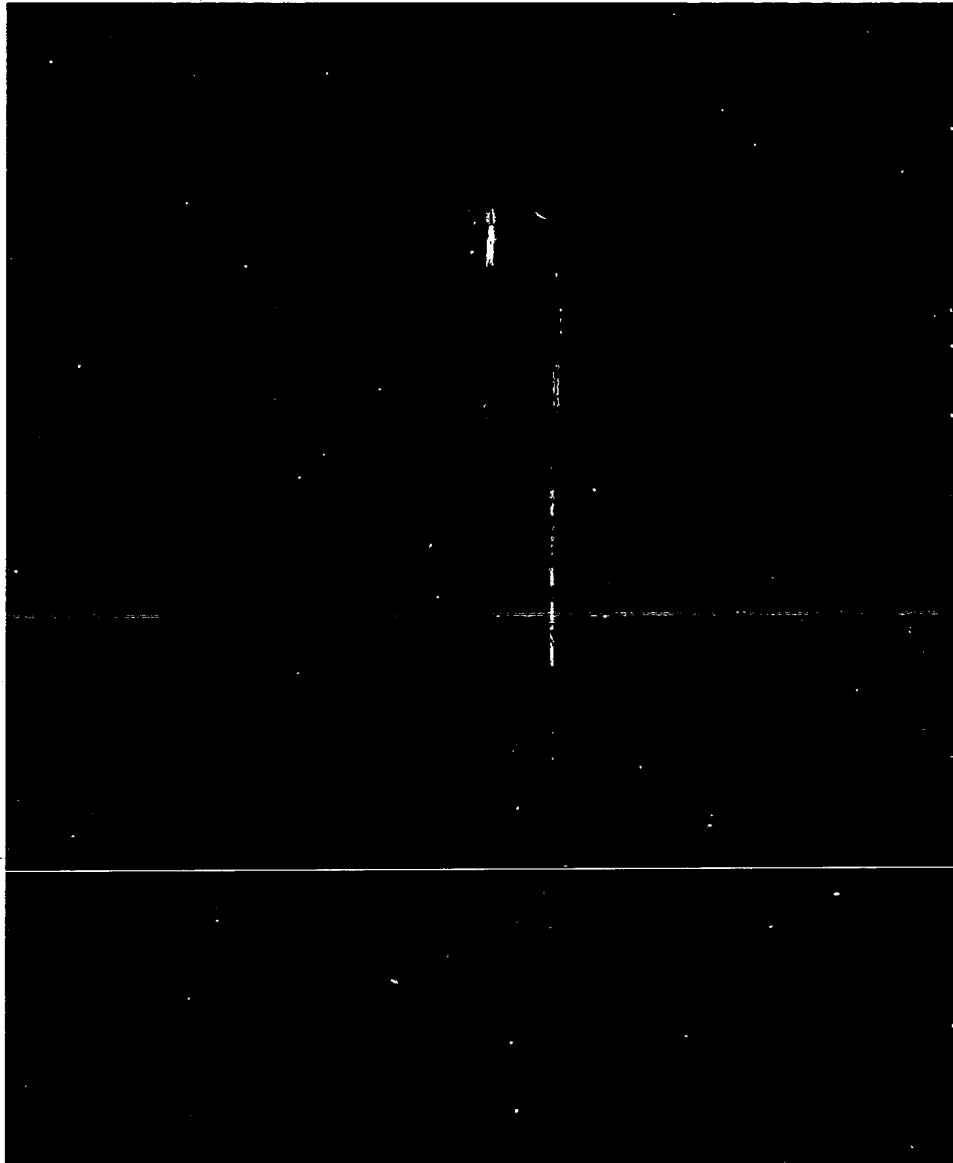


FIG. 29

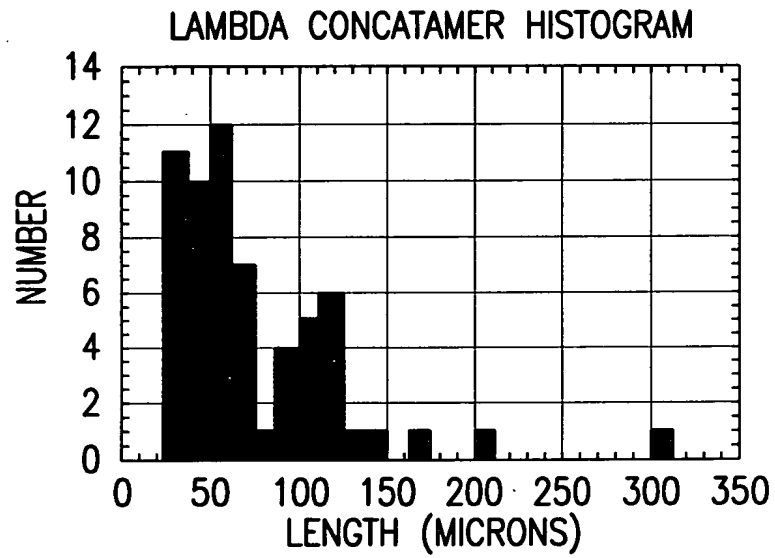


FIG.30

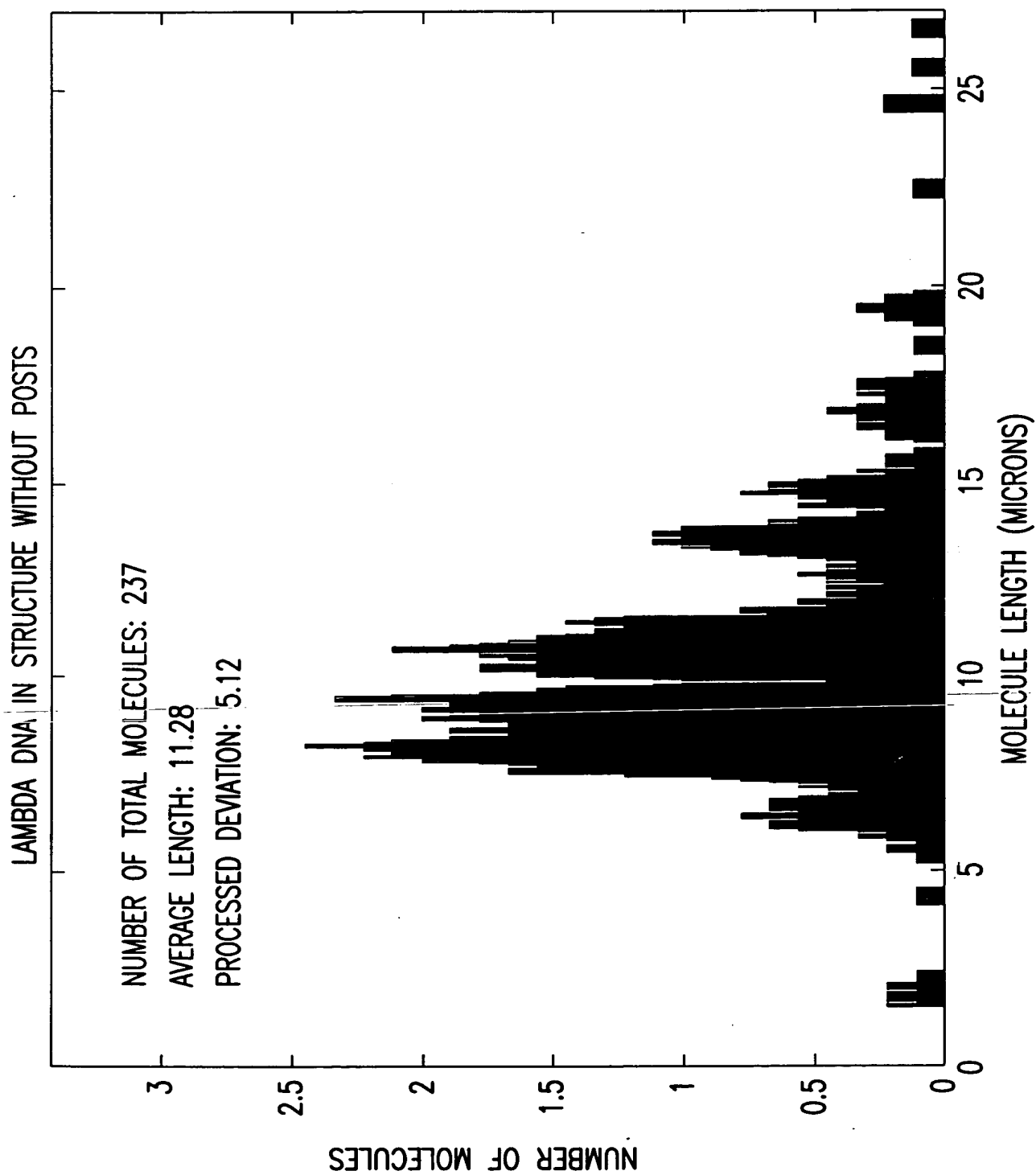


FIG. 31A

FIG. 31B

LAMBDA DNA IN STRUCTURE WITH POSTS

NUMBER OF TOTAL MOLECULES: 110
AVERAGE LENGTH: 18.71
PROCESSED DEVIATION: 3.08

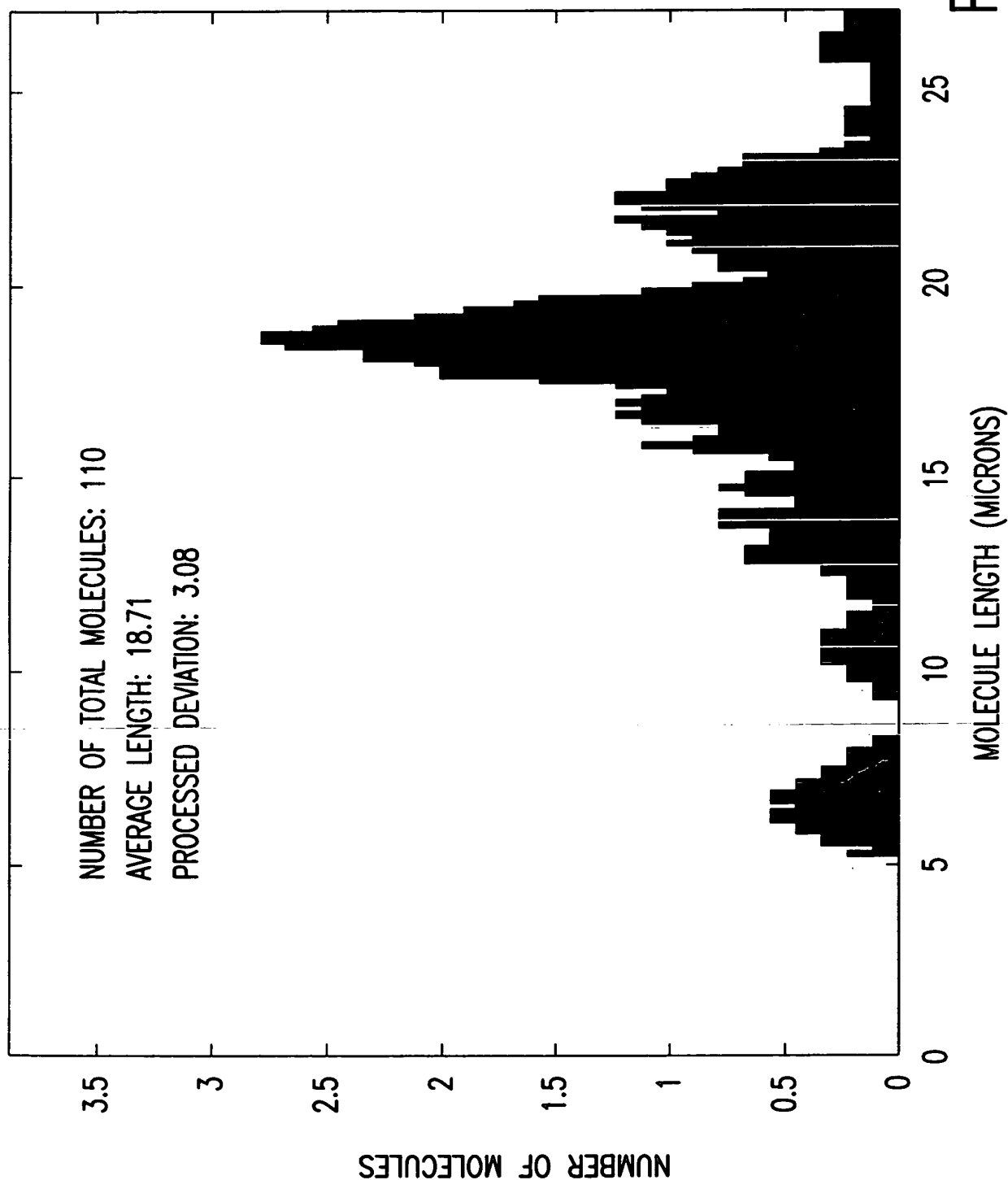


FIG. 31B

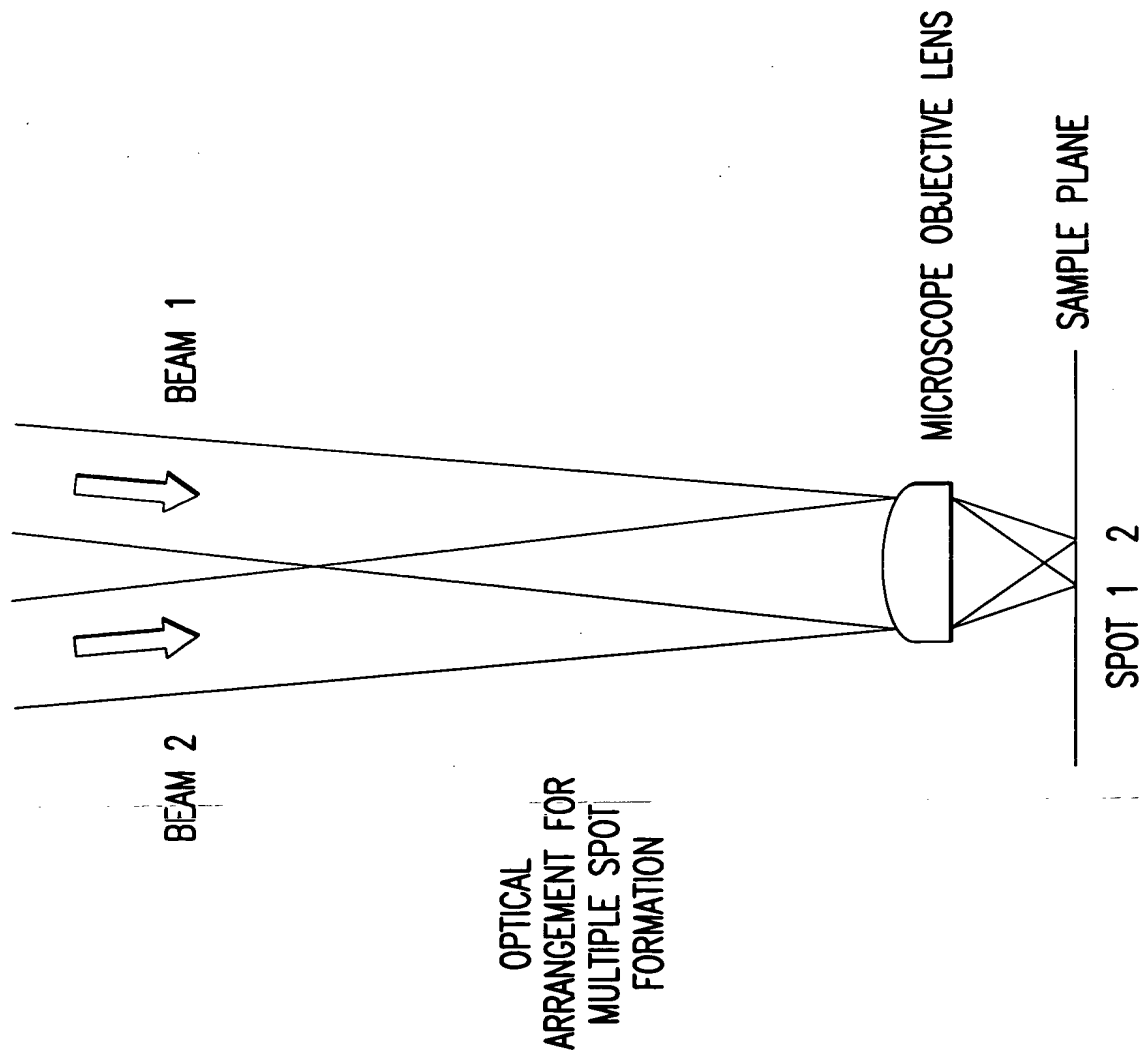


FIG.32

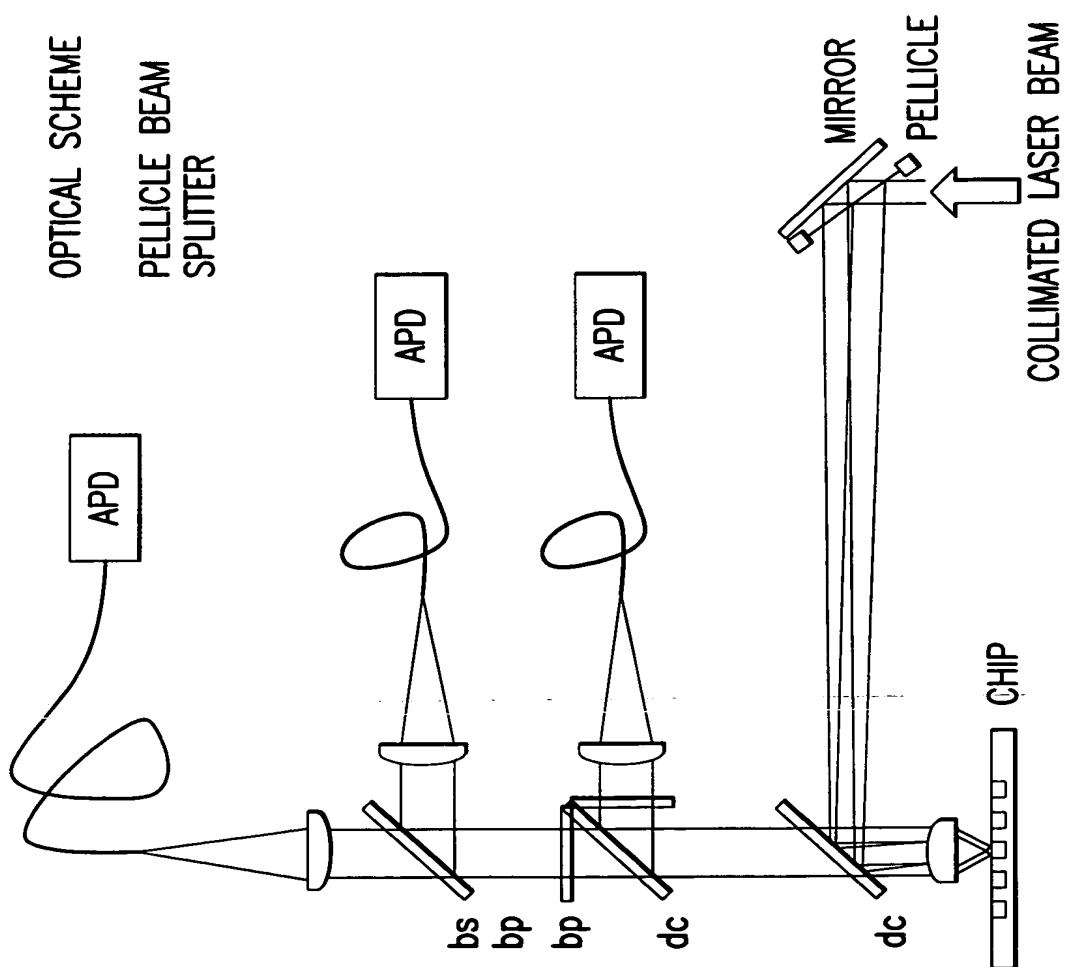


FIG.33

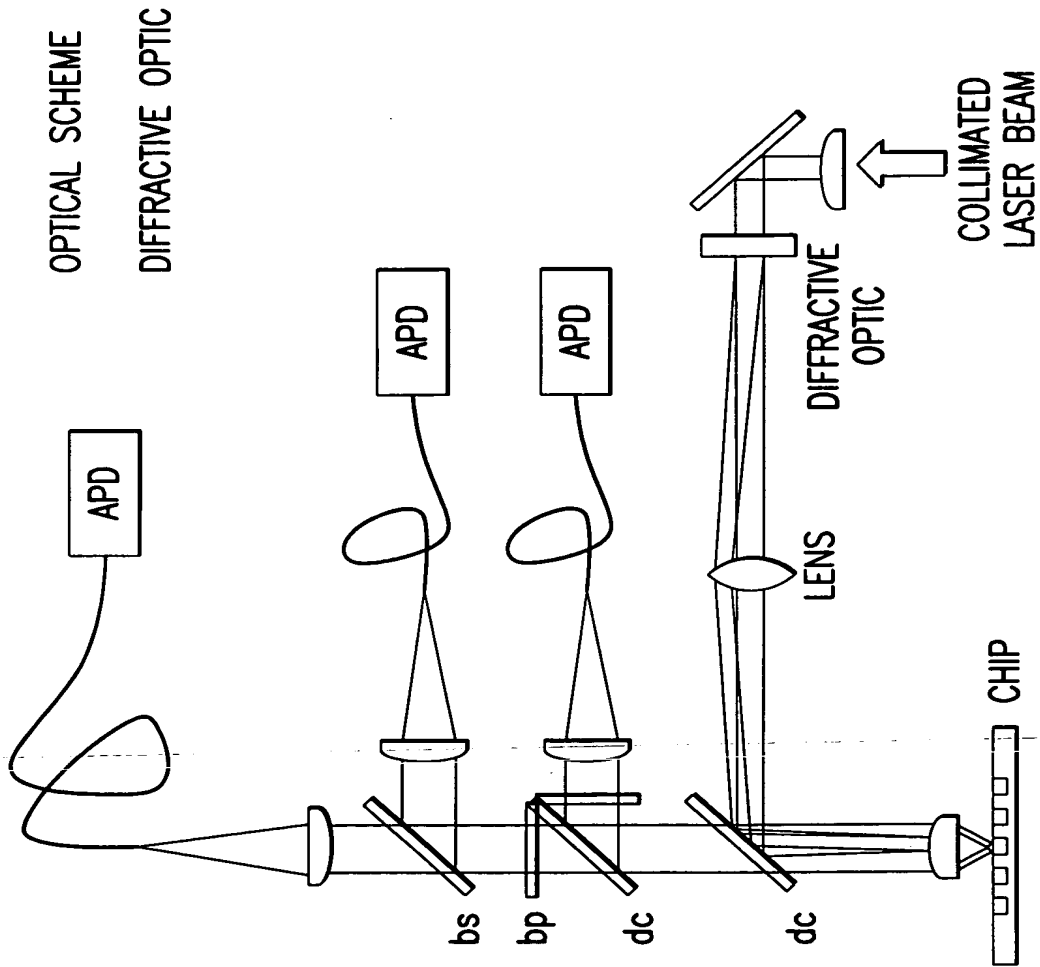


FIG.34

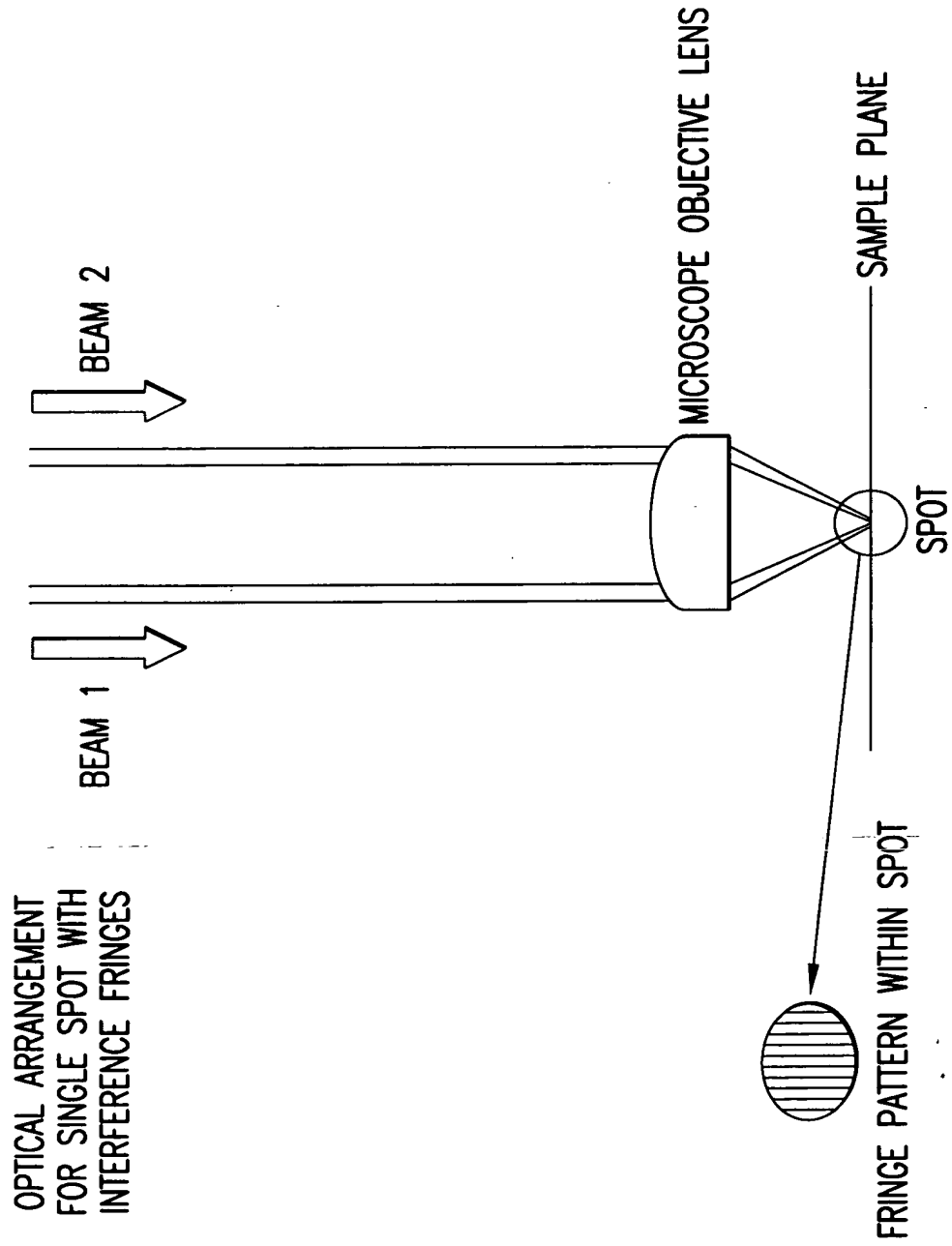


FIG.35

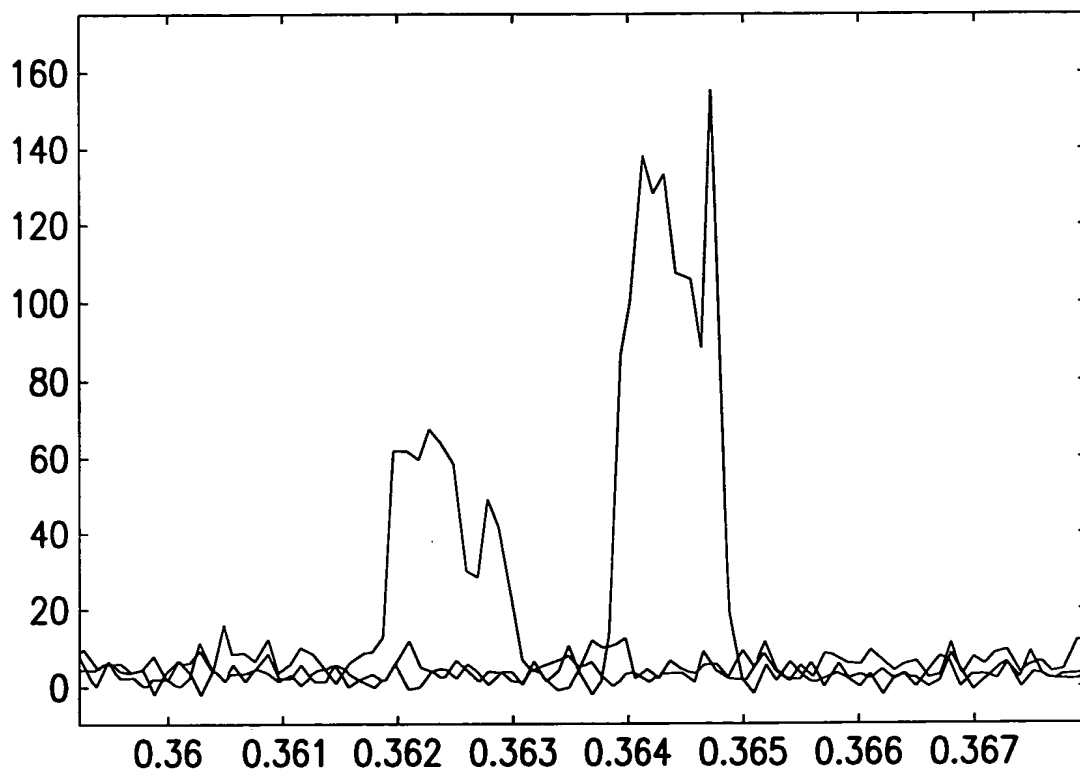


FIG.37B

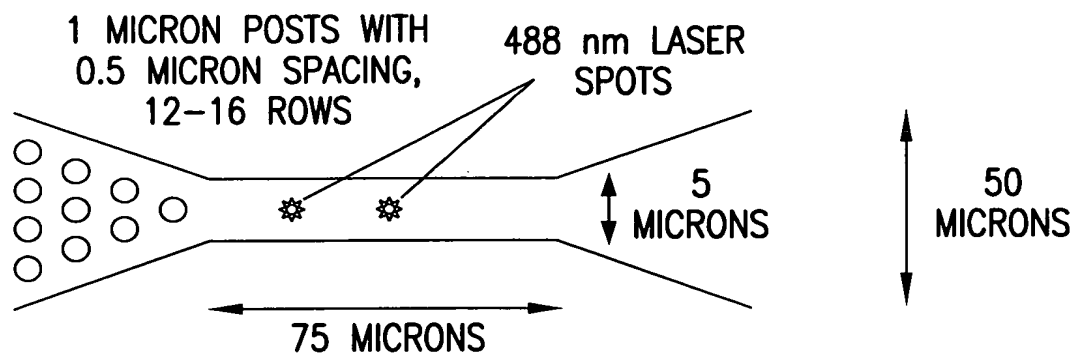


FIG.36

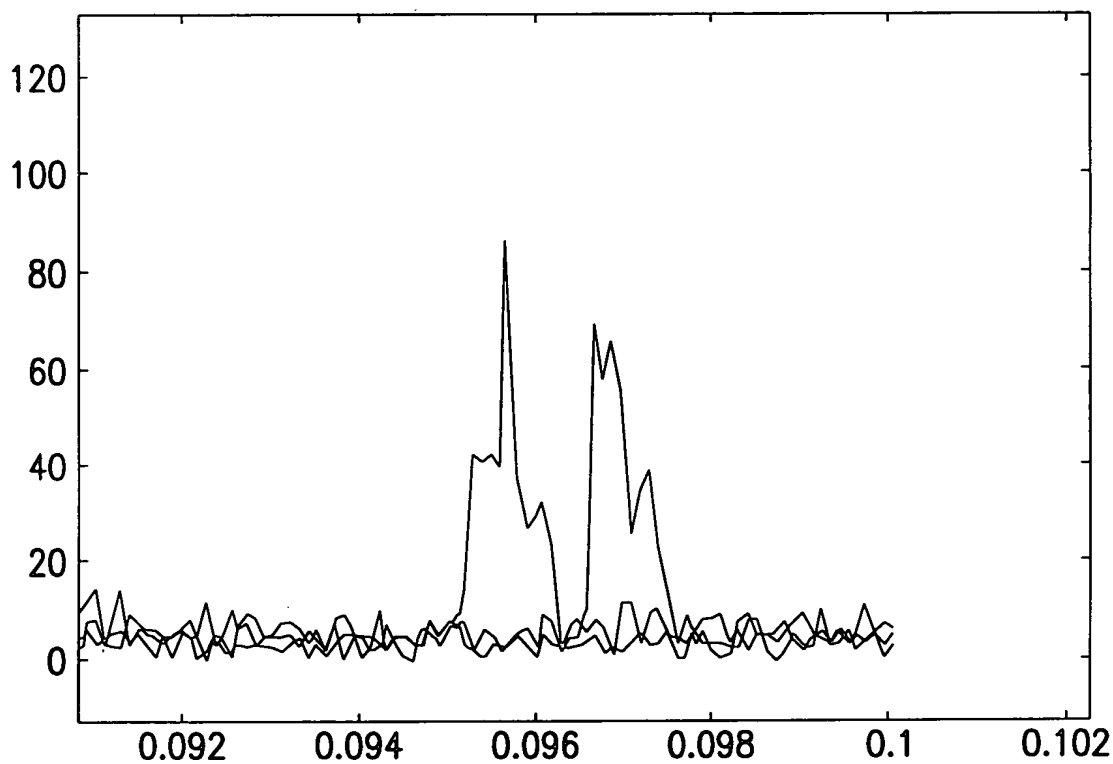
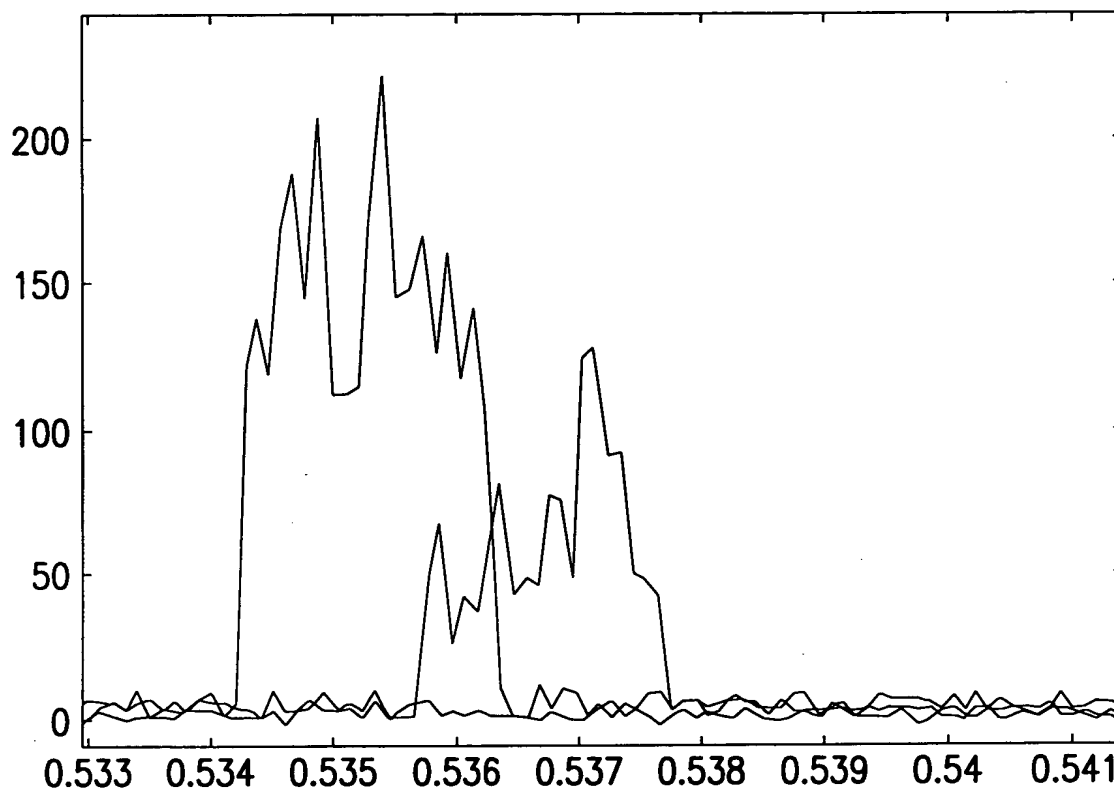
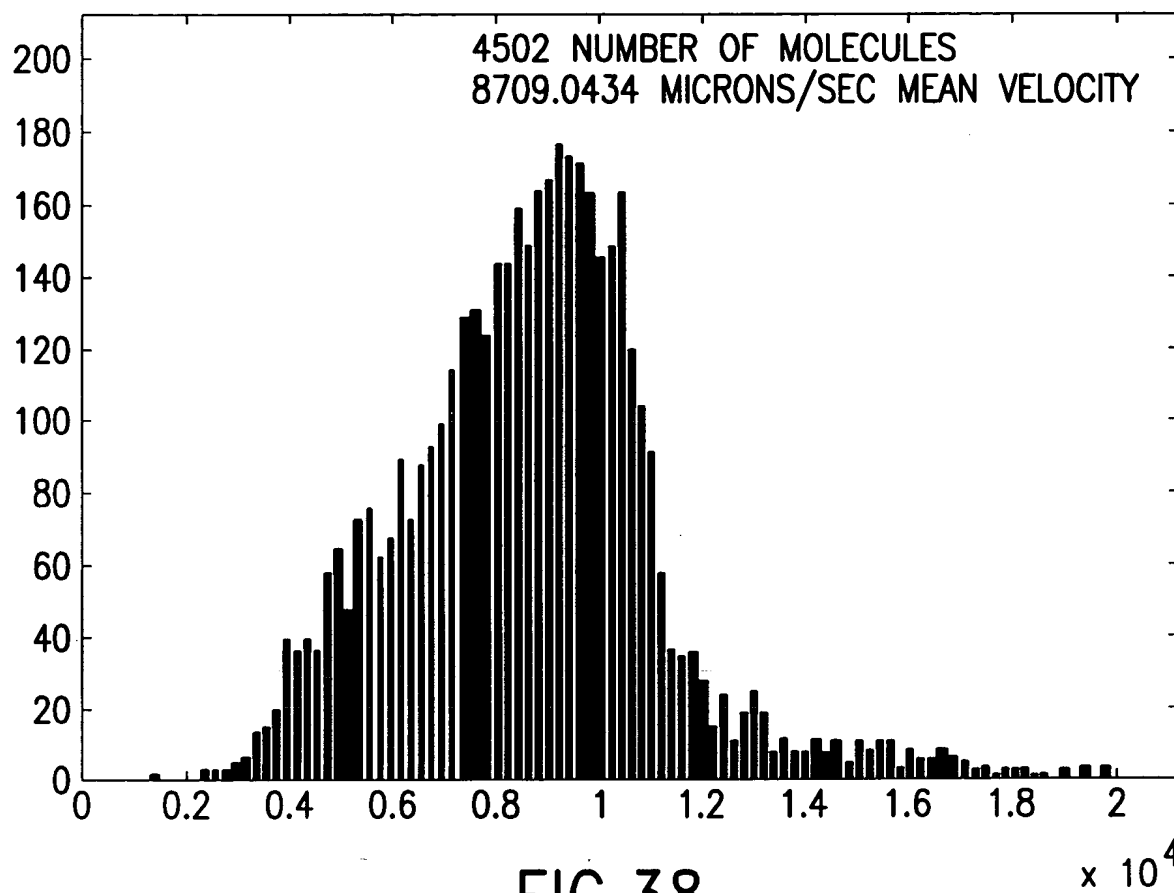


FIG.37A





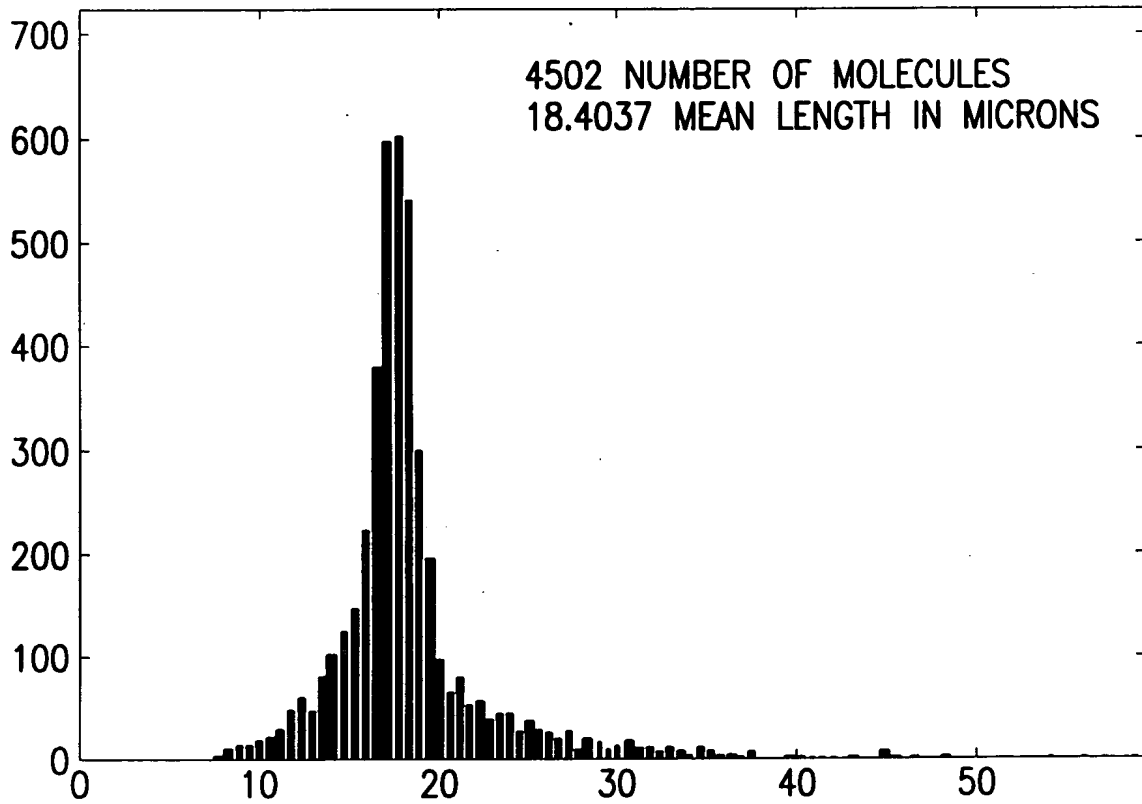


FIG.39